

19990212.qrp v01_n365.qrl.990212

Date: Fri, 12 Feb 1999 19:04:19 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1365

QRP-L Digest 1365

Topics covered in this issue include:

- 1) [32791] Re: Cleaning boards/flux removal - WOW ;^)
by Michael Neverdosky <MichaelN@cycat.com>
- 2) [32792] Re: ElectroMagnetics on 20/20 ??
by "Steven Weber" <kd1jv@moose.ncia.net>
- 3) [32793] Re: How do you work this out?
by Roger Hightower <n7kt@earthlink.net>
- 4) [32794] RE: Light weight paddle
by mike1@urbancom.net (Dinelli, Michael)
- 5) [32795] enough already
by "Jerry W. O'Dell" <jwodell@ameritech.net>
- 6) [32796] Re: How do you work this out?
by Barry J Minsky <w2bj@juno.com>
- 7) [32797] == QST ARTICLE INFO NEEDED ==
by Jacob <alfa33@scn.org>
- 8) [32798] RE: How do you work this out?
by "Ed Tanton" <n4xy@mindspring.com>
- 9) [32799] RE: How do you work this out?
by "Nathan Odle" <nodle01@mail.coin.missouri.edu>
- 10) [32800] Temp sensing circuit needed
by Mike Mullins <mmullins@mastnet.net>
- 11) [32801] Re: enough already
by Dan Copeland <kf0ov@alltel.net>
- 12) [32802] FS: Ten Tec Paragon (Reduced)
by "Tim Cook" <timcook@erinet.com>
- 13) [32803] FS: IC737
by Niel Skousen <skousen@srv.net>
- 14) [32804] Re: How do you work this out?
by Jeff Johns <jeffj@scott.net>
- 15) [32805] The other side of the coin
by <msix@nmia.com>
- 16) [32806] Re: How do you work this out?
by Jacob <alfa33@scn.org>
- 17) [32807] Fox
by Fred J Kalt <w2xn@juno.com>
- 18) [32808] Re: == QST ARTICLE INFO NEEDED ==
by "Mark Hogan" <mhogan@email.msn.com>
- 19) [32809] Test Equipment colaborator wanted.

- by Paul Erickson <paule@sfu.ca>
- 20) [32810] SHEEPISH ADMISION: Re: NC20 L1 toroid question
by "Paul R. Valko" <prvalko@oakland.edu>
- 21) [32811] Re: QRP Quarterly
by "George Heron" <gheron@nac.net>
- 22) [32812] Re: How do you work this out?
by "Paul R. Valko" <prvalko@oakland.edu>
- 23) [32813] Variable Caps: Orders processed thru 11 Feb
by wb2vuo@juno.com
- 24) [32814] Flux Removal
by Lee Bahr <bahr521@earthlink.net>
- 25) [32815] K2 Frequency Alignment With An External Freq. Counter
by Jerry Henshaw <jhenshaw@bellsouth.net>
- 26) [32816] Re: enough already
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 27) [32817] Fox worked...
by Fred Lesnick <flesnick@tbaytel.net>
- 28) [32818] Re: Converting a QRP kit to surface mount components
by k5zty@juno.com
- 29) [32819] CW readout-freq counter.
by ka7you@juno.com
- 30) [32820] FOX: Be careful what I wish for
by "David Ek" <ekdave@earthlink.net>
- 31) [32821] no joy in Mudville, or Quakertown, PA
by "Paul Norman Craig, Jr." <n3ysi@easy-pages.com>
- 32) [32822] Soldering Iron Scare
by Jeff Logullo <jeff.logullo@Central.Sun.COM>
- 33) [32823] Solder flux recommendations?
by Jeff Logullo <jeff.logullo@Central.Sun.COM>
- 34) [32824] Re: CW readout-freq counter.
by Jeff Johns <jeffj@scott.net>
- 35) [32825] Re: no joy in Mudville, or Quakertown, PA
by Tom Palmer <n1tp@worldnet.att.net>
- 36) [32826] Jersey Fireball 40
by "David Hurley, n2zhy" <n2zhy@amsat.org>
- 37) [32827] Fox: sig report
by sholisky@ktca.org (Scott Holisky)
- 38) [32828] RE: Solder flux recommendations?
by "Ed Tanton" <n4xy@mindspring.com>
- 39) [32829] (CW) telegraphy and the internet
by Oscar A Hoyt <k5ubs@juno.com>
- 40) [32830] Re: converting to SMT & K6LMN simple superhet
by Ed Loranger <we6w@juno.com>
- 41) [32831] Re: NC20 L1 toroid question
by David Fifield <fifield@pacbell.net>
- 42) [32832] no joy in Mudville, or Quakertown, PA
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 43) [32833] Fox: sig report

by "Wilford D. Lindsey" <70511.3041@compuserve.com>
44) [32834] Re: SHEEPISH ADMISION: Re: NC20 L1 toroid question
by David Fifield <fifield@pacbell.net>
45) [32835] Re: Solder flux recommendations?
by Gary L Surrency <gsurrency@juno.com>
46) [32836] Re: CW readout-freq counter.
by ka7you@juno.com
47) [32837] Dayton Banquet INFO!
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
48) [32838] Re: How do you work this out?
by N7YA@aol.com
49) [32839] Re: Soldering Iron Scare
by "Radman" <radman@best.com>
50) [32840] K2 first contact!
by Peter_Simpson@ne.3com.com
51) [32841] Re: Light weight paddle
by "Kim Andersen" <ox3fv@greenet.gl>
52) [32842] Re: enough already
by Bruce Muscolino <w6toy@erols.com>
53) [32843] cold solder? was Flux Removal
by Michael Neverdosky <MichaelN@cycat.com>
54) [32844] Re: Light Weight Paddle
by wpc@west.net (John L. Roblin / Whiterook Products Co.)
55) [32845] Fox and QRL
by Bob Hightower <ki7mn@extremezone.com>
56) [32846] Re: ElectroMagnetics on 20/20 ??
by DNT1@daimlerchrysler.com
57) [32847] K8FF/Norcal Paddles
by Wayne A Smith <k8ff@juno.com>
58) [32848] Elmer200: Crystal oscillator information web site
by "L. Mark Pilant - MS ZK03-4/Y02 DTN 264-1529" <pilant@seesaw.ENET.dec.com>
59) [32849] Simple Keyer Project
by Gary Slagel <gdslagel@yahoo.com>
60) [32850] Re: How do you work this out?
by Bruce Rattray <rattray@gpfn.sk.ca>
61) [32851] RE: Elmer200: Crystal oscillator information web site
by "L. Mark Pilant - MS ZK03-4/Y02 DTN 264-1529" <pilant@seesaw.ENET.dec.com>
62) [32852] Re: Fox and QRL
by Vic Rosenthal <rakefet@rakefet.com>
63) [32853] Heath HW-9
by Bruce Rattray <rattray@gpfn.sk.ca>
64) [32854] Sweep oscillator
by "Tom Samples KB0YZY" <tomsa01@swbell.net>
65) [32855] Lightweight 50:200ohm balun
by Zack Lau <zlau@arrl.org>
66) [32856] New at the site
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
67) [32857] Jersey Fireball 40

- by "David Hurley, n2zhy" <n2zhy@amsat.org>
- 68) [32858] NVIS practice planned for this weekend
by Jim Glover <psykey@okcforum.org>
- 69) [32859] A bit more on the computer for trade
by "Caitlyn M. Martin" <cait.martin@ibm.net>
- 70) [32860] Re: Lightweight 50:200ohm balun
by Gary L Surrency <gsurrency@juno.com>
- 71) [32861] Re: Elmer200: Crystal oscillator information web site
by John Evans - N0HJ <jaevans@codenet.net>
- 72) [32862] NOT QRP; any VBI data pro's ?
by Niel Skousen <nskousen@scientech.com>
- 73) [32863] Flux and cleaning comments
by Pete Burbank <plburbank@kih.net>
- 74) [32864] Re: First impressions on K2 vs. European BC strn
by Wayne Burdick <n6kr@elecraft.com>
- 75) [32865] VE?DNL Calibrator Crystal?
by wgabriel@dukeengineering.com
- 76) [32866] new thread
by Walt Amos <waltk8cv@surfree.com>
- 77) [32867] QRP Quarterly Jan 1999 Issue
by George Gingell <k3tks@u1.abs.net>
- 78) [32868] Re: new thread
by Tom Palmer <n1tp@worldnet.att.net>
- 79) [32869] Fox: final log K1MG
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 80) [32870] FOX: IWTF: Patience + Perseverence = Pelt
by Nick Franco <franco@bnl.gov>
- 81) [32871] Re: Sweep oscillator
by "Steven Weber" <kd1jv@moose.ncia.net>
- 82) [32872] RE: ElectroMagnetics on 20/20 ??
by "Nathan Odle" <nodle01@mail.coin.missouri.edu>
- 83) [32873] 7040 area may be crowded this weekend
by DNT1@daimlerchrysler.com
- 84) [32874] recent selling prices, ham equipment.
by neil <neil@aade.com>
- 85) [32875] NorCal 20
by David Allen <w1wai@gis.net>
- 86) [32876] NorCal20
by David Allen <w1wai@gis.net>
- 87) [32877] WTB (Don't Laugh): NorCal 20
by "Nathan Odle" <nodle01@mail.coin.missouri.edu>
- 88) [32878] Re: WE6W hrd on AR QRP net thru s-7 line buzz. Noise blanker ideas?
by af852@rgfn.epcc.edu (William R Colbert)
- 89) [32879] WANTED: NC20 kit
by Allan G Taylor <k7gt@arrl.net>
- 90) [32880] WTB NC-20
by "James A. Carmody" <carmodyjim@earthlink.net>
- 91) [32881] More Parking Lot Portable Vertical (PLPV) Experiments and the "No

t So Ugly Weekender"
by Sam Billingsley <SBillingsley@usaninc.com>
92) [32882] RE: WANTED: NC20 kit es WTB NC-20
by "Nathan Odle" <nodle01@mail.coin.missouri.edu>
93) [32883] A do-it-yourself high-level mixer
by Roger Traylor <traylor@ECE.ORST.EDU>
94) [32884] Re: Lightweight 50:200ohm balun
by Bob Edwards <w4ed@flash.net>
95) [32885] Y2K Y to K
by "WILLIAM T. ROSE" <supertec@mail.myriad.net>
96) [32886] Wanted: NC-20 (will pay \$125)
by sda <sda@bellsouth.net>
97) [32887] Roasted 2N2222
by "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>
98) [32888] Old QST article
by ntan <ntan@crosslink.net>
99) [32889] Get ready for ARRL CW DX contest NOW!
by Jim <kj5tf@madisoncounty.net>
100) [32890] Get ready for ARRL CW DX contest NOW!
by Jim <kj5tf@madisoncounty.net>
101) [32891] FOX: AB0GO preliminary log
by "David Ek" <ekdave@earthlink.net>
102) [32892] Re: 7040 area may be crowded this weekend
by Ron Stark <ku7y@dri.edu>

Date: Thu, 11 Feb 1999 23:59:32 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [32791] Re: Cleaning boards/flux removal - WOW ;^)
Message-ID: <36C32894.64545A6F@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

bcotter@pop.uky.edu wrote:

>

> Interesting commentary about cleanup issues.

> Doc, military specifications for soldering at the depot level
> requires skill certification after attending "solder school". The
> course I took in 1972 was a week of 8-hour days, one day of which
> was lecture followed by four of continuous soldering. Every
> instruction for soldering had a cleanup phase that included an
> alcohol wash to remove rosin flux and for hi-Z (100M up) circuits,
> a special wash with another reagent (I can't remember offhand).

Probably Freon TF.

We used Freon TF when I was in the Navy from 1975-1980.

If you check the standards, all flux must be removed for anything to be 'space qualified'. Then again, I am not taking my rigs into space.

: -))

: -))

michael N6CHV

Date: Thu, 11 Feb 1999 19:20:59 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: nskouzen@scientech.com
Cc: qrp-1@lehigh.edu
Subject: [32792] Re: ElectroMagnetics on 20/20 ??
Message-ID: <199902120006.TAA10256@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

> I heard that there was an interesting section on electromagnetic weapons on
> 20/20 last night. Anybody see it ? Or better yet, anybody tape it ? Can
> I get a copy ?

Yeah, I saw it, but didn't tape it.

Basicly, they found if you aim a high power microwave beam at most anything with a uP in it, it crashes after a few seconds. Suprise, suprise!

One guy was stopping uP controled cars, with the hood up, at 20 or 30 ft by using a corner refelector to focus energy made by a high voltage/ high current spark gap. Personal computers go crazy and crash after 20-30 seconds, no problem. Stuff in unshielded plastic boxes crash almost instantly. Doesn't do any perminate damage.

They showed a quick picture of a device that looked like it had a bunch of spark gaps in a metal tube, terminated by a wave guide that could crash systems at 3000 ft. I'd hate to stand in front of that device!

Interesting, but you'd need one heck of a lot of power to do any damage at a respectable distance and to affect a wide area. Still, if you could stall one car on a busy freeway, you'd do some damage, hi!

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Thu, 11 Feb 1999 17:14:05 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: RangerSF5@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32793] Re: How do you work this out?
Message-ID: <36C30FDD.16E44B19@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Simple. If the buyer isn't happy because the rig isn't as advertised,
the seller needs to return the \$\$ and get the rig back, or fix it.

Folks on this list have a real good track record for not screwing
buyers. We need to keep it that way.

--
72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Thu, 11 Feb 1999 18:15:11 -0600
From: mike1@urbancom.net (Dinelli, Michael)
To: <ox3fv@greenet.gl>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [32794] RE: Light weight paddle
Message-ID: <000901be561c\$c13806a0\$a1e551d1@mike1.urbancom.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have a lot of links to Morse related items including small, light weight
paddles on my web site. Just go over to my Morse code links.

73 de Mike, N9BOR
FISTS NR 4594
<http://www.qsl.net/n9bor>

di dah dit - The only roger beep you will ever need.
cw - Breakfast of Champions

My designated driver is a 12BY7A.

> Could someone direct me to a good webside with light weight
> paddles. Need one for my small rig when trekking, so weight is a problem!!
>
>
> 73 de Kim/OX3FV

Date: Thu, 11 Feb 1999 19:38:36 -0500
From: "Jerry W. O'Dell" <jwodel@ameritech.net>
To: qrp-1@lehigh.edu
Subject: [32795] enough already
Message-ID: <19990212013453.XSJ21951@default>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ye gods -- clean boards, dirty boards.

I clean mine just to make them look better.

I solder sufficiently well so that there is no
flux touching anything anyhow.

Haven't people anything better to talk about?

73 jerry w8gnd

Date: Thu, 11 Feb 1999 19:40:39 -0500
From: Barry J Minsky <w2bj@juno.com>
To: RangerSF5@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [32796] Re: How do you work this out?
Message-ID: <19990211.194040.-361225.0.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If I were in this situation, I would offer to take the rig back and
return the buyer's money. Or I would offer to fix the rig for the buyer.
My experience on the list has been very positive. I have helped others
and others have helped me. The important thing to me is to be sure that

the other person is satisfied.

On Thu, 11 Feb 1999 18:36:22 EST RangerSF5@aol.com writes:

>Hi Gang,
>This never happened but was always on my mind(Thanks Willie)
>Lets say I sold a rig on the list.
>Clean,no bugs,factory new and everything works super.
>I list it and get a buyer.
>He even calls me for more info and I tell him it works FB.
>We work out a price,he gets the rig a few day later then finds that
>he's
>getting bad audio reports or maybe it has a CW chirp or the digital
>readout
>flickers now and then.
>Now what??
>What is the proper way to deal with this type of problem??
>What if he turned a little thingie inside the rig with the GOLDEN
>screw
>driver??
>Do you tell he/she to get lost?(Not Right).
>You have no control over the rig between point *A* and point *B* but
>at point
>*B*,the rig now has a problem.
>So really gang.
>Who buys the farm??
>The buyer isn't happy and the seller says it was in excellent
>operating
>condition.
>Open for feed back on this topic.
>Bob
>WA2HQrp <tm>
>

72/73,

Barry J. Minsky, W2BJ

ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century
Club #569, Platinum #51, FISTS CW Club of Coastal Georgia, Knightlites,
Adventure Radio Society #359,
Six Club #151, QCWA #29298, OOTC #3723
Amateur Radio Missionary Service

Date: Thu, 11 Feb 1999 18:47:22 -0600

From: Jacob <alfa33@scn.org>

To: QRP-L@lehigh.edu

Subject: [32797] == QST ARTICLE INFO NEEDED ==

Message-ID: <3.0.6.32.19990211184722.007b9b60@scn.org>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

OK gang--

I'm looking for the article STARTING and ENDING page numbers for the following QST equipment reviews:

Alinco DX-70T	Dec 95	Rick Lindquist, KX4V
Alinco DX-77T	June 98	AA1GW
SGC SG-2020	Oct 98	Rick Lindquist, KX4V
Icom IC-707	Apr 94	Steve ford, WB8IMY
Icom IC-706MkII	Jan 98	Rick Lindquist, KX4V
Icom IC-730	Dec 82	Larry Wolfgang, WA3VIL (now WR1B)
Yaesu FT-840	May 94	Steve Ford, WB8IMY
Yaesu FT-600	Feb 97	Steve Ford, WB8IMY

My local library does not carry QST, but they can get reprints through Interlibrary Loan. However, they need the actual page numbers of each article to be able to do this.

If anyone has these issues, I would surely appreciate finding out the actual page numbers.

Thanks!

73,

Jacob Worthington
AA4FM

Date: Thu, 11 Feb 1999 20:04:02 -0500
From: "Ed Tanton" <n4xy@mindspring.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <RangerSF5@aol.com>
Subject: [32798] RE: How do you work this out?
Message-ID: <008601be5623\$94492be0\$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Bob... are you saying that he messed with the rig's alignment/whatever within the rig? If not-and even if he just doesn't LIKE the rig, I'd give him his money back less whatever it cost to ship the rig to him, provided HE returns the rig postpaid in essentially the same shape I shipped it in; IF, on the other hand, he did admit messing with the alignment/etc. he has bought a rig as far as I'm concerned. You do not mess around in rigs you plan to return.(Exceptions: sidetone volume, line out-or other non-serious alterations, no problem however.)

72 / 73 Ed N4XY email: <n4xy@mindspring.com>

Date: Thu, 11 Feb 1999 19:11:11 -0600
From: "Nathan Odle" <nodle01@mail.coin.missouri.edu>
To: <RangerSF5@aol.com>, <qrp-1@lehigh.edu>
Subject: [32799] RE: How do you work this out?
Message-ID: <000001be5624\$94559280\$0100a8c0@elwood>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> This never happened but was always on my mind(Thanks Willie)

Heh, I get to see Willie Thursday night :)

I know, completely off topic, but it was a reply to something ON topic!

73,
Nathan
KB0NNV

Date: Thu, 11 Feb 1999 19:04:36 -0600
From: Mike Mullins <mmullins@mastnet.net>
To: qrp-1@lehigh.edu
Subject: [32800] Temp sensing circuit needed
Message-ID: <3.0.5.32.19990211190436.007a3af0@mastnet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've got a nice, small circuit based on a single IC (LM3911) which I have in my computer power supply right now (I'm assuming your muffin fans are DC). This proportioning controller can reduce noise if you're careful. Keep in mind that these small motors can't be controlled by lowering the voltage. A variable duty cycle square wave is the only way. If anyone else is interested, send me a SASE and I'll make copies. 72 de Mike KD5CMN

Paul Erickson wrote:

I'm looking for a circuit to control a couple of muffin fans, and the Handbook, and the other references I have available don't seem to have anything. Any suggestions?

Date: Thu, 11 Feb 1999 19:15:37 -0600
From: Dan Copeland <kf0ov@alltel.net>
To: jwodel1@ameritech.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [32801] Re: enough already
Message-ID: <199902120114.TAA05559@mail.alltel.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thats the beauty of this list Jerry. When this list gets done with a topic you can bet its been beat to death, dragged through the mud, hung out to dry...etc etc.

Oh well back to 40m.

Dan

At 07:38 PM 2/11/99 -0500, Jerry W. O'Dell wrote:

>Ye gods -- clean boards, dirty boards.

>

>I clean mine just to make them look better.

>

>I solder sufficiently well so that there is no

>flux touching anything anyhow.

>

>Haven't people anything better to talk about?

>

>73 jerry w8gnd

>

Daniel Copeland KF0OV

kf0ov@alltel.net

QCWA Webmaster* ARRL-life member*

QRP-L 1004, ARCI - 9670, OHR 100A-20, OHR-500

<http://www.qcwa.org> | <http://www.dcopeland.com>

"I want to die peacefully in my sleep like my grandfather,
not screaming in terror like his passengers."

Date: Thu, 11 Feb 1999 20:17:44 -0500

From: "Tim Cook" <timcook@erinet.com>

To: "QRP" <qrp-1@lehigh.edu>, "tentec" <tentec@contesting.com>

Subject: [32802] FS: Ten Tec Paragon (Reduced)

Message-ID: <013c01be5625\$81bd5440\$4f705acf@timcook.erinet.com>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Had a couple of tire kickers, few inquirers, one close call, but nothing
firm, so I'm lowering it by \$100. Back under the bench after that if no
interest.....

FS: Excellent Condition Late Serial Number Paragon (04B10391)

- Optional 1.8 SSB Filter
- Optional 500, 250 hz CW Filters
- Optional FM Board
- Optional RS-232 Board
- Ghie1 Chip (also have stock chip)

- Looks and works excellent, non-smoker
- All documentation
- Power cord

Excellent receiver, carrier right on frequency, no hets when switching to USB/LSB from an AM signal. Great for SWL'ing or BCB DX'ing using ECCS.

Typical Paragon power output (could be adjusted up or down if need be)

160m - 110w	30m - 90w	15m - 80w
80m - 110w	20m - 90w	12m - 80w
40m - 105w	17m - 80w	10m - 80w

power is adjustable down to ~5w from front panel as is.

\$1000 + shipping/insurance (no trades please)
Do not want to sell options separately

Will sell Astron SS-25 power supply that I use with the Paragon for \$50 to the buyer of the Paragon.

Please email direct if interested..

Thanks

Tim

Date: Thu, 11 Feb 1999 18:17:48 -0700
From: Niel Skousen <skousen@srv.net>
To: qrp-1@lehigh.edu, Jacob <alfa33@scn.org>
Subject: [32803] FS: IC737
Message-ID: <4.1.19990211181605.00944970@eaglerock.if.sciencetech.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I still have an IC737 for sale, the radio is in pristine condition electrically and mechanically
It didn't sell at \$850, so anyone interested at \$750 ??

Niel

Niel Skousen Sr. Eng. Sciencetech / NUSI
208.525.3742 nskousen@sciencetech.com WA7SSA/qrp

Date: Thu, 11 Feb 1999 19:35:59 -0600
From: Jeff Johns <jeffj@scott.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [32804] Re: How do you work this out?
Message-ID: <199902120135.TAA26368x@scott.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

On Thu, 11 Feb 1999 18:36:22 EST, RangerSF5@aol.com wrote:

> What is the proper way to deal with this type of problem??

I just traded something to another list member so I'll use it for an example.... well actually I have traded stuff a couple of folks on the list <grin>. In the first case it was a set of paddles, mine for his, it is/was a gentleman's agreement if we both like what we got we keep it, if not we cheerfully send each other's stuff back in the same condition it arrived. The other example is an amp I traded to a list member for a kit and some other goodies. I fully expect him to take the amp, wire it up and use it for a couple of days to confirm that it works. I would do the same, if it doesn't, once again we send each other's stuff back (unless I can get him to sell me the stuff <g>). Now, I wouldn't expect him to keep the amp for a month then tell me it doesn't work, but I think a week or less is acceptable. I've done all kinds of trading and buying off the internet and I have yet to be 'screwed' by anyone :) I am of the belief that 99% of people are basically honest, the other 1% are total jerks. So inresponse to the original question, if it wasn't sold "As Is", I think a week or less is ample time, after that he should be on his own.

73 es gl Jeff

```
*--==--== Jeff Johns W4JEF - AMSAT# 32615 - QRP-L #1857 ==--==--*  
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |  
| Satellite: Mir R0MIR-1, AO-27 | Jefferson County Sheriff's Dept|  
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |  
*--==--==--*  
  
-----
```

Date: Thu, 11 Feb 1999 19:07:38 -0700 (MST)
From: <msix@nmia.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32805] The other side of the coin
Message-ID: <Pine.LNX.3.93.990211185655.13081A-100000@plato.nmia.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Re: How do you work this out?

Didn't buy several old radios I really, really wanted
because the guys would not offer an unconditional return guarantee.
In these cases, there is almost always a surprise waiting...

73 - John W7ZFB

1400 Catron SE Albq, NM 87123

* Homebrewer since 1947 CW BoatAnchors Norcal #930 *
* BA CW freqs - 3578, 7050, 7118, 14050, 21050, 28050 *

Date: Thu, 11 Feb 1999 20:24:51 -0600
From: Jacob <alfa33@scn.org>
To: w2bj@juno.com, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [32806] Re: How do you work this out?
Message-ID: <3.0.6.32.19990211202451.007c12f0@scn.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The customer is always right! PERIOD!

It does not pay to argue when selling things on the Internet. If you've
been living right and have done the right thing, then just refund the money
and move on! Most of the time, the \$\$\$ received just do NOT justify
arguing with someone you've probably never met in person. Life's just too
short for trivialities.

When I sell things on the Internet, I just go ahead and build-in %10 for
the occasional unhappy customer. You just CAN'T please everyone all the time!

73,

Jacob Worthington
AA4FM

At 07:40 PM 2/11/99 -0500, Barry J Minsky wrote:

>If I were in this situation, I would offer to take the rig back and
>return the buyer's money. Or I would offer to fix the rig for the buyer.
> My experience on the list has been very positive. I have helped others
>and others have helped me. The important thing to me is to be sure that
>the other person is satisfied.

>

>On Thu, 11 Feb 1999 18:36:22 EST RangerSF5@aol.com writes:

>>Hi Gang,

>>This never happened but was always on my mind(Thanks Willie)

>>Lets say I sold a rig on the list.

---[MAJOR PORTION DELETED]---

Date: Thu, 11 Feb 1999 21:30:13 -0500

From: Fred J Kalt <w2xn@juno.com>

To: qrp-l@lehigh.edu

Subject: [32807] Fox

Message-ID: <19990211.213014.-881029.7.w2xn@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Can barely hear the fox here.

Fred W2XN (reply to: w2xn@arrl.net)

Lakeland, FL

W5YI-VE Skywarn #POL-007 Polk County ARES Net Manager AR QRP

#233 QRP-L #1728

My Web Page:

<http://www.geocities.com/ResearchTriangle/Thinktank/5344/>

Date: Thu, 11 Feb 1999 20:32:52 -0600

From: "Mark Hogan" <mhogan@email.msn.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [32808] Re: == QST ARTICLE INFO NEEDED ==

Message-ID: <002301be562f\$fdffbd40\$6ae60181@mhogan-ws>

They're all up on the members only web site.

-----Original Message-----

From: Jacob <alfa33@scn.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Thursday, February 11, 1999 7:05 PM
Subject: == QST ARTICLE INFO NEEDED ==

>OK gang--

>

>I'm looking for the article STARTING and ENDING page numbers for the
>following QST
>equipment reviews:

>

>

>

>Alinco DX-70T Dec 95 Rick Lindquist, KX4V

>

>Alinco DX-77T June 98 AA1GW

>

>SGC SG-2020 Oct 98 Rick Lindquist, KX4V

>

>Icom IC-707 Apr 94 Steve ford, WB8IMY

>

>Icom IC-706MkII Jan 98 Rick Lindquist, KX4V

>

>Icom IC-730 Dec 82 Larry Wolfgang, WA3VIL (now WR1B)

>

>Yaesu FT-840 May 94 Steve Ford, WB8IMY

>

>Yaesu FT-600 Feb 97 Steve Ford, WB8IMY

>

>

>

>My local library does not carry QST, but they can get reprints through
>Interlibrary Loan. However, they need the actual page numbers of each
>article to be able to do this.

>

>If anyone has these issues, I would surely appreciate finding out the
>actual page numbers.

>

>Thanks!

>

>73,

>

>Jacob Worthington

>AA4FM

>

>-----

>

Date: Thu, 11 Feb 1999 18:45:03 -0800 (PST)
From: Paul Erickson <paule@sfu.ca>
To: qrp-1@lehigh.edu (qrp), qrp-canada@lists.gpfn.sk.ca (qrp-canada)
Subject: [32809] Test Equipment colaborator wanted.
Message-ID: <199902120245.SAA22567@fraser.sfu.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi there,

The deal is this. Through the good graces of Eim (forgot his call) in Holland, I have ordered a signal generator, and sweep module from Kent Electronics in Holland. I know nothing about the kits except that the sig generator is supposed to go up to about 50mhz, using veractor tuning, and the sweep module uses a sawtooth gen to sweep it. Given the cost of the kits- @\$35 each, I am managing my expectations. I will build the kits, but would like to find someone with the technical background, and the equipment to evaluate their usefulness.

I have neither the background nor equipment to do this myself.

This might turn into a joint article for one or more of the qrp publications.

Anyone interested in working with me on this?

cheers, Paul VE7CQK/email: paule@sfu.ca

Date: Thu, 11 Feb 1999 21:54:45 -0500 (EST)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Mont Pierce <montp@synacom.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32810] SHEEPISH ADMISION: Re: NC20 L1 toroid question
Message-ID: <Pine.OSF.3.95.990211214758.32726A-100000@vela.acs.oakland.edu>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 11 Feb 1999, Mont Pierce wrote:

> Any one know if it makes any difference if L1 is wound
> clock-wise versus counter-clock-wise around the toroid?

heh heh... imagine my surprize when I turned the page after winding that thing for 20 minutes (including removing one turn I found that had wire crossed) only to see that I had wound the whole contraption bassackwards.

It doesn't make any difference at all. Obviously, you flip the coil over to make the wires line up with the holes, but I measured my L0 at EXACTLY 5.000000000 MHZ on my HP (High Priced) freq counter.

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics
<<http://www.acs.oakland.edu/~prvalko>>

Date: Thu, 11 Feb 1999 22:03:23 -0500
From: "George Heron" <gheron@nac.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, <w1rfi@arrl.net>
Subject: [32811] Re: QRP Quarterly
Message-ID: <001101be5634\$841e02c0\$45327bd1@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ed (and all others commenting on QQ),

Thank you very much for your kind words about the QRP Quarterly. I know I speak for all the regular column contributors to the publication, as well as for the featured authors of each issue, in saying that that your positive feedback is most appreciated and very encouraging in helping to keep all the volunteer effort going strong. We have a good staff of talented and motivated columnists who enjoy making each issue of QQ interesting and useful to the readership.

I would also add the regular request for new potential

authors to contact any of the QQ Editorial Staff (identified on the back cover of each issue) with your ideas, partially completed articles, or full-blown project manuscripts for inclusion in QRP Quarterly. Article material can be oriented along project and construction lines, or it may be operating-related or along human interest threads. It can come from your website, from an interview of your favorite Elmer, or it could even be an adaptation of an existing project in another publication like QST or QEX. And it doesn't have to be "picture perfect" ... any one of us editors would be happy to work with your material to spruce it up as -needed, scan some photos you might have, or reproduce some hand-drawn schematics and diagrams. Just contact us if you have any thoughts about doing your very own article in QQ! What better way to enhance our QRP community than to share your ideas, experiments and observations with us all.

And thanks too, Ed, for your offer for material regarding the ARRL Lab ... we'd love to work with you to make something like this happen!

72/73,

--George Heron, N2APB
n2apb@amsat.org in Sparta, NJ
Managing Editor, QRP Quarterly

>Let me congratulate you for continuing the fine traditions
of the QRP
>Quarterly ...
>
>[snip]
>
>On a related note, I wanted to let you know that I am
available by email
>if you have any questions about the ARRL, especially the
ARRL Lab. I
>would be glad to offer my input on any material about the
Lab.
>
>72 from the ARRL Lab,
>Ed Hare, W1RFI
>

Date: Thu, 11 Feb 1999 22:02:40 -0500 (EST)

From: "Paul R. Valko" <prvalko@oakland.edu>
To: Roger Hightower <n7kt@earthlink.net>
Cc: QRP List <qrp-l@lehigh.edu>
Subject: [32812] Re: How do you work this out?
Message-ID: <Pine.OSF.3.95.990211215916.32726B-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 11 Feb 1999, Roger Hightower wrote:

> Folks on this list have a real good track record for not screwing
> buyers. We need to keep it that way.

Excellent response. I would not hesitate to sell/buy a rig from QRP-L
BECAUSE I BELIEVE that if someone did fiddle with the rig post-sale (your
example) they would not try to pull a fast one.

Same with me on the receiving end.

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics
<<http://www.acs.oakland.edu/~prvalko>>

Date: Thu, 11 Feb 1999 22:02:40 EST
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [32813] Variable Caps: Orders processed thru 11 Feb
Message-ID: <19990212.030139.5103.0.wb2vuo@juno.com>

23 orders have been received and processed, that being 22 shipped and one
slated for hand delivery. 88 caps out of the first box gone, and 12 of
the amll Johnsons. I still have enough on hand to fill the outstanding
requests with caps to spare...

The calls of those processed to date are:

AA10F
W2EB WA2ECP W2KJ N2ZHS
WB3GCK N3YSI
WB4CHK AE4GX K4PYM WQ4Q W4STX
K5OI
AB6CO
KL7JAF WB7RPG N7SPK
W8TIM

KE9PO
N0HJ K0LVR W0YSE

I am trying to keep current because it would be too easy to get behind.

My local Post Office dreads my arrival already, and I still have 40 Email requests without any corresponding envelope.

This is an educational experience, one worth documenting (and I probably will...)

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp.
Trustee, B/BAMS club station and the NQ2RP/B 10 Mtr QRPp beacon
"My night light runs more power than my Rig!!!"

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or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 11 Feb 1999 21:08:42 -0600
From: Lee Bahr <bahr521@earthlink.net>
To: qrp-l@Lehigh.EDU
Subject: [32814] Flux Removal
Message-ID: <36C39B3A.8520CE1A@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

1. I am going to remove the flux because it makes ME feel good. 2. I can do this because I own the board. 3. Does it really matter if the radio works if the board looks good? 4. I just passed my first major test building my K2 and it passed with flying colors. The doomsdayers were telling me my soldering joints using Kester 245 low flux solder would give me cold solder joints. Well, it didn't, and the boards look beautiful and I have very little flux to HAVE to contend with. With Kester 245, you can leave the flux in place if cleaning the board bugs you, since little flux is on the board. If any of you wonder about Kester 245, I would suggest you buy some and see for yourself. You decide, what is good or bad. Kester 245 is too good to

be given a bum wrap by some. This stuff is wonderful. I would compare it to being the 6th wonder of the world! I think it may even improve my marriage. I will no longer be grumpy. I'll never go back to Kester 44 regular solder. If you listen to the dooms dayers, you will short change yourself, and never make it to Mecca. If you try it and like it, remember who gave you the tip. Vote for me in the next election. I don't work for Kester or the Federal Government. This is not a Communist plot, or a Bill Gates tactic. :-) Lee Bahr w0vt

Date: Thu, 11 Feb 1999 22:17:13 -0500
From: Jerry Henshaw <jhenshaw@bellsouth.net>
To: "'eleccraft@qth.net'" <eleccraft@qth.net>, "'QRP List'" <qrp-l@Lehigh.EDU>
Subject: [32815] K2 Frequency Alignment With An External Freq. Counter
Message-ID: <01BE560C.48E02D00@host-216-77-216-176.fll.bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,

With the help of Wayne Burdick, I aligned my K2 with an external frequency counter.... it is within +/- 45hz across all bands! Here is the procedure that I used:

1. Connect the K2 Frequency counter and your external counter to TP1. Adjust C22 (on the Control Board) until the K2's counter matches the freq. of your external counter by +/- 10hz.
2. Re-calibrate all the BFO filters (use 40 meters to do this). Make sure you follow the instructions carefully and tune the BFO filters to the correct side of the passband.
3. Re-calibrate the PLL using CAL PLL.

That's it!! I couldn't zero beat with WWV due to a heterodyne somewhere in my apartment complex right on 10.00000 mhz. In order for this procedure to work, you must be sure your external counter is accurate. So, if you are having trouble zero-beating WWV and you have a decent counter, try the above procedure.

My K2 is rock solid and nearly dead on.... on all bands! This rig is truly a joy to use. The adjustable filters are fantastic. BTW for those of you who asked, I am using a St. Louis Tuner with my K2 and 30ga wire wrap wire antenna thrown up in a 20 foot tree. Hey, I worked Norway with it!!!

I hope the above information helps. Now all I need is a speaker grill and I can put the covers on until the options start shipping.

All the Best & 72's

Jerry Henshaw
KR5L

Date: Fri, 12 Feb 1999 03:33:53 -0000
From: "Steve Sorrell" <ap036@detroit.freenet.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>, <kf0ov@alltel.net>
Subject: [32816] Re: enough already
Message-ID: <019e01be5638\$845876e0\$c042b3c7@sorrells>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

But, you forgot, a month from now someone will ask the same question "Should I clean my boards before building" and start the same bull---- all over again.
To clean or not to clean, THAT is the question
de Steve, W8SFF

Date: Thu, 11 Feb 1999 22:34:25 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: "qrp-canada@lists.gpfn.sk.ca" <qrp-canada@lists.gpfn.sk.ca>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [32817] Fox worked...
Message-ID: <36C3A140.DBC91D00@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

well i got dave at 03:24 Z,it was a long wait to try and get him,many loud hounds in there.Dave was 579 when he started at 02:00 Z,then dropped ever so lightly down to 559...Good night and worth the wait.....Go Northern Lights...

73 Fred VE3FAL

You can do so much with so little.....

Date: Thu, 11 Feb 1999 18:50:58 -0600
From: k5zty@juno.com
To: sda@bellsouth.net
Cc: qrp-l@Lehigh.EDU
Subject: [32818] Re: Converting a QRP kit to surface mount components
Message-ID: <19990211.214428.10182.1.k5zty@juno.com>

This sounds like a challenge for WA8MCQ to me.....

Bill, K5ZTY

>See, I have this vision of an awesome monoband rig, like for 40
>meters,
>with a rainbow tuner, SuperTick keyer, VX0, RIT, and mini LCD panel
>for digital readout of freq -- all done in SMT, that would ALL fit
>inside an
>Altoids tin, along with a 9V battery. :-)
>
>Crazy? Possible? Anyone else want to take this on with me?
>
>Peace and 72/3,
>Todd, KD5GCH
>
>
>

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or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 11 Feb 1999 23:14:34 EST
From: ka7you@juno.com
To: QRP-L@LeHigh.EDU
Subject: [32819] CW readout-freq counter.
Message-ID: <19990211.203107.2359.16.ka7you@juno.com>

I have an acquaintance who is sightless, and we were talking about
operating HF. I asked him how he determined his operating frequency, and
was told that it was hard, but his rig would not let him operate out of

band, and he is an extra class op, so he is safe that way. He also likes CW operation.

I mentioned the little frequency counter which reads out freq in CW, and he wants to know more, but I can't seem to find it now. Is it the Freq-Mite, and who makes it?

W7's come now please...:>)

Thanks,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.

160M thru 1296 MHz-higher bands pending

ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 and others

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or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 11 Feb 1999 21:18:07 -0700
From: "David Ek" <ekdave@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [32820] FOX: Be careful what I wish for
Message-ID: <000501be563e\$b26cfa00\$42ab85ce@davidek>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Thanks to all who turned out for this evening's hunt. I had hoped conditions would be better than they were for my last turn, and I wasn't disappointed. What a pileup! It was all I could do to pluck a call out of that hornet's nest. Even up to the end it was like a swarm waiting to pounce (am I mixing metaphors?). My hat is off to those foxii of late who were able to work 90+ hounds--you are truly remarkable ops! I had to settle for about 63--better than my last time but a skilled op could have had more. Sorry to those of you who didn't get a pelt. And VE2KN--sorry we couldn't finish it--I lost you completely.

Signals for the first hour were very good--probably better than the 559 I was handing out almost all the time (no time to think about accurate reports!) By the end of the second hour things had dropped considerably. I also seemed to be battling SSB nearby which even my tight filter couldn't kill all the time. Noise levels on the band were fairly high, it seemed

(though I've been having trouble with local QRN lately, too). Still, there was no begging for contacts this time.

Again, tnx all of you for playing--it was a wild ride, and a real adrenaline rush! To those of you who've never done this before, put your name in next year--experience the combination of fear and anticipation!

Log to follow tomorrow. I have a real mess to sort out first.

72 de Dave AB0GO

Date: Thu, 11 Feb 1999 23:22:21 -0500
From: "Paul Norman Craig, Jr." <n3ysi@easy-pages.com>
To: "'qrp-l'" <qrp-l@lehigh.EDU>
Subject: [32821] no joy in Mudville, or Quakertown, PA
Message-ID: <01BE5615.7CBE49A0@default>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Dave,=20

You were heard in eastern PA all evening but never stronger than S3, = most of the time below that. My deepest apology for sum qrm when I felt = u had come back to me. Dave u did an excellent job with the pack on a = less than glorious nite for propagation.=20

Interestingly, I switched back and forth between an Emtech NW, Tentec = 515 and an Icom 737A. The latter two hook up to 265' loop and the Emtech = to 134' attic loop. Had u better with the Emtech, and the audio peaking = filter, than either of the other two rigs. The Tentec usually takes the = cake with the matching 208A notch/filter, but not tonight.....didididit = dadah dadah dadah, mebbe hooking the 515 up to the short loop, or I = cudda tried the G5RV, or the 66'dipole. Oh well, there's always next = tuesday and some new propagation to work with. That's wat makes this so = much fun. BTW, as usual, Doc K0EVZ yelped loader than anyone else = tonight. Wonder if he has a linear hooked up to that qrp rig? gn all.

72 de n3ysi #1835

Paul in Quakertown, PA

"WIRES & SLINGSHOTS - I'M SCARED OF HEIGHTS"

Date: Thu, 11 Feb 1999 22:31:24 -0600
From: Jeff Logullo <jeff.logullo@Central.Sun.COM>
To: qrp-l@lehigh.edu
Subject: [32822] Soldering Iron Scare
Message-ID: <36C3AE9D.C0B58B92@central.sun.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I was seduced by all the talk of the Weller WTCTP solder station (and the sale price) mentioned on QRP-L last week and took the plunge. I figured as long as I had to wait for the 10T pot for my NC20, I'd wait for the solder station.

Then the 10T pot arrived; I began sorting the resistors and caps--again--this time putting them in styrofoam, with Dave's parts charts glued on with 3M Spray Mount. With that done, it was time to melt solder!

I decided to re-read all the tips gathered from QRP-L, and the manual, one more time. The section in the manual about using a grounded-tip soldering iron was nagging me. "Hmmm... wonder if that new WTCTP rig has a grounded tip?" I mused. "Hey, I wonder about Old Faithful?", a Weller WP-25.

I checked for DC continuity between the iron's tip and each of the three prongs of the AC plug: no connection. Hm. Can't be grounded, then.

Then, (proper precautions presumably taken) I plugged in the iron, and checked for AC voltage between the tip and the neutral side of the AC line. 120V! Yow! I wonder how much current... POP! I don't know how much, but it's more than I should have checked without Doing It The Correct Way. The Micronta seemed to survive, and my heart eventually slowed to normal.

Questions:

With no continuity between the tip and the plug's three conductors, where's all that AC coming from?

Assuming this is not a "grounded-tip soldering iron", how would one safely and effectively ground its tip? Is it possible?

I have managed to put together quite a few radios and gadgets with Old Faithful in the past. Have I just been lucky all these years?

Date: Thu, 11 Feb 1999 22:32:32 -0600

From: Jeff Logullo <jeff.logullo@Central.Sun.COM>
To: qrp-1@lehigh.edu
Subject: [32823] Solder flux recommendations?
Message-ID: <36C3AEE1.AEDC291F@central.sun.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gary Surrency mentions (in his notes on the NorCal web site) using "a little extra flux" when tinning the crystal cans. Any suggestions on brands or sources? I don't think I've seen solder flux at the local electronics emporium, nor at Radio Shag.

Date: Thu, 11 Feb 1999 22:30:25 -0600
From: Jeff Johns <jeffj@scott.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [32824] Re: CW readout-freq counter.
Message-ID: <199902120430.WAA27846x@scott.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

On Thu, 11 Feb 1999 23:14:34 EST, ka7you@juno.com wrote:

> and he wants to know more, but I can't seem to find it now. Is it the
> Freq-Mite, and who makes it?

Hi Rod! It is the Freq Mite by Small Wonder Labs, Sorry, but I don't know the exact URL. I'm sure someone else will volunteer that info. BTW, I actually soldered some parts on the SixPack board this morning :)

73 Jeff

```
*----- Jeff Johns W4JEF - AMSAT# 32615 - QRP-L #1857 -----*
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |
| Satellite: Mir R0MIR-1, AO-27 | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |
*-----*
```

Date: Thu, 11 Feb 1999 23:36:55 -0500
From: Tom Palmer <n1tp@worldnet.att.net>

To: n3ysi@easy-pages.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32825] Re: no joy in Mudville, or Quakertown, PA
Message-ID: <36C3AFE7.3B5747FB@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Loudest hound heard in Florida
this hunt was K10J in Texas at 0333.

Tom, N1TP

"Paul Norman Craig, Jr." wrote:

> Dave,
> You were heard in eastern PA all evening but never stronger than S3,
most of the time below that. My deepest apology for sum qrm when I felt u had come
back to me. Dave u did an excellent job with the pack on a less than glorious nite
for propagation.
> Interestingly, I switched back and forth between an Emtech NW, Tentec
515 and an Icom 737A. The latter two hook up to 265' loop and the Emtech to 134'
attic loop. Had u better with the Emtech, and the audio peaking filter, than
either of the other two rigs. The Tentec usually takes the cake with the matching
208A notch/filter, but not tonight.....didididit dadah dadah dadah, mebbe hooking
the 515 up to the short loop, or I cudda tried the G5RV, or the 66'dipole. Oh
well, there's always next tuesday and some new propagation to work with. That's
wat makes this so much fun. BTW, as usual, Doc K0EVZ yelped loader than anyone
else tonight. Wonder if he has a linear hooked up to that qrp rig? gn all.
>
> 72 de n3ysi #1835
> Paul in Quakertown, PA
> "WIRES & SLINGSHOTS - I'M SCARED OF HEIGHTS"

Date: Thu, 11 Feb 1999 23:52:29 -0500
From: "David Hurley, n2zhy" <n2zhy@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>, njqrp <njqrp@njqrp.org>
Subject: [32826] Jersey Fireball 40
Message-ID: <36C3B38D.E265E97E@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well, not too many Fireballs heard tonight(Thursday).

I called consistently from 0100 utc Friday until the foxhunt at 0200. Every 10 minutes or so I sent out n2zhy/qro, at fifty watts just to let people know that someone was out there. Noise level here in New Jersey was pretty high.

I heard Bob, kb2sgm in New Jersey although I kept copying his callsign incorrectly. I gather that he never heard me.

Jim, kj5tf in Arkansas might of heard me. Said he heard a weak signal but couldn't copy any letters. I would like to believe that he got me. I guess that's a confirmed "I don't know, could of been".

Anyone else out there here anything? Or were there any other Fireballs out there transmitting? Let us know.

Thanks for everyone that listened. Again I will keep this up for a few weeks, 1 hr before the foxhunt. If anyone else wants to try a contact at other times I would love to try.

Thanks
David,n2zhy
Princeton,NJ

Date: Thu, 11 Feb 1999 23:04:48 -0600
From: sholisky@ktca.org (Scott Holisky)
To: qrp-l@lehigh.edu
Subject: [32827] Fox: sig report
Message-ID: <fc.000f548a003fa17c000f548a003fa17c.3fa188@ktca.org>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Boy what strange conditions tonite. Dave, you were just blasting in to Minnesota, then down to zip. But luckily returned to S-9.

I bout' fell off the chair when Doc hit 20 over 9 ! Never heard him so strong. (Maybe that ND storm carries rf too?) QRN so bad at times I could hear the grass growing under the snow :). Spring can't be far now...

Good hunt.

73's Scott N0AR

Vadnais Heights, MN (ok N. of St.Paul)

Date: Fri, 12 Feb 1999 00:19:59 -0500
From: "Ed Tanton" <n4xy@mindspring.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: <jeff.logullo@Central.Sun.COM>
Subject: [32828] RE: Solder flux recommendations?
Message-ID: <009801be5647\$561499d0\$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

You're still looking to use a rosin-based flux Gary. I THINK 'Shack sells a flux "pen" which is pretty handy. If not, Mouser/et al does-as well as a big bottle of Kester whatever... but it'd be centuries before you used it up!!!

It also helps to put it down in the holes of a PL-259 saturating the braid a bit before soldering, when making cables.

72 / 73 Ed N4XY email: <n4xy@mindspring.com>

Date: Thu, 11 Feb 1999 23:27:09 -0600
From: Oscar A Hoyt <k5ubs@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [32829] (CW) telegraphy and the internet
Message-ID: <19990211.232711.8662.0.k5ubs@juno.com>

re the book "The Victorian Internet"

The xyl did an internet search of on-line book stores. Best buy for this book was found at A1 books at www.a1books.com. total cost less than 19.00 with shipping. Got it for a valentine's gift. (see ham radio and marriage do work... and I can put up any antennas I want.....does it get any better?)

usual disclaimers, no connection with A1 books.

Oscar Hoyt, ham since '55, ARRL, QCWA, QRP-L 1733, NORCAL

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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 12 Feb 1999 00:43:10 EST
From: Ed Loranger <we6w@juno.com>
To: wctrautfield@west.raytheon.com
Cc: qrp-1@Lehigh.EDU
Subject: [32830] Re: converting to SMT & K6LMN simple superhet
Message-ID: <19990211.213949.4903.2.we6w@juno.com>

Hi Curt and friends.
The WE6W Contest Pixie article and schematic exist only
in the Norcal QRPp, Spring 1998 issue. I never put it
on my web page. Time? None. Gotta get 2000 QRP QSO's!

C-y'all
72, Ed WE6W, AR Millennium QSO's=418/2000
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

On Thu, 11 Feb 1999 10:21 -0800 (PST) wctrautfield@west.raytheon.com
writes:

> I was thinking of starting with the Pixie and was going to
>query the group at large about which version to use. To get ideas, I
>looked at WE6W's web page quickly last night for his contest version,
>but was interrupted and so did not get too far.
<snip>
> Curt
> KE6CDC
> Lompoc, Ca

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or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 11 Feb 1999 21:50:00 -0800
From: David Fifield <fifield@pacbell.net>
To: montp@synacom.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32831] Re: NC20 L1 toroid question
Message-ID: <36C3C108.85ED40D7@pacbell.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Mont,

Yes, it will make a difference. If you wind the turns counter clockwise from the first turn, you will end up with the inductor "reversed", so it won't fit in the holes properly on the PCB. Make it look like the one in the picture and all will be well. You should have plenty of green 26awg left over to wind it with if you need more wire.

Good luck es 72,
Dave Fifield, AD6A

Mont Pierce wrote:

>
> Any one know if it makes any difference if L1 is wound
> clock-wise versus counter-clock-wise around the toroid?
>
> The instructions on page 7 section 5, is very nicely
> detailed except for this little tid-bit.
>
> Thanks,
> Mont

Date: Fri, 12 Feb 1999 01:08:25 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:n3ysi@easy-pages.com" <n3ysi@easy-pages.com>, //QRP-L Discussion Group <QRP-L@Lehigh.edu>, "+Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [32832] no joy in Mudville, or Quakertown, PA
Message-ID: <199902120111_MC2-6A36-A22D@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Paul:

Well thanks for this signal report. I missed Dave completely the first time he was Da FOX. Could only barely hear him that evening. When I remembered that experience, I hastily erected the double bazooka oriented especially for Dave :-).

Used the 33' collapsible pole hoisted by a 12' piece of PVC pipe. Not great or elegant, but it managed to stay up long enough for the hunt.

BTW Dave was the loudest FOX ever heard here. He was well above 599 for at least the last 35 minutes.

Setup here - OHR500 at 5 watts to the bazooka. Really wish I could have tried with the TNT/2 Windom at 33', since I missed him the first time with it. Oh well.

Sure hope all the remaining FOXes are as loud, but this will likely not happen. Nuts. Old Mother 40 has a way of being capricious!

72/73,

--Doc Lindsey/K0EVZ

DSBF

P.O. Box 7187

Bismarck, ND 58507

E-Mail 70511.3041@compuserve.com

Date: Fri, 12 Feb 1999 01:08:29 -0500

From: "Wilford D. Lindsey" <70511.3041@compuserve.com>

To: "INTERNET:sholisky@ktca.org" <sholisky@ktca.org>, "+Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>, //QRP-L Discussion Group <QRP-L@Lehigh.edu>

Subject: [32833] Fox: sig report

Message-ID: <199902120111_MC2-6A36-A22E@compuserve.com>

MIME-Version: 1.0

Content-Transfer-Encoding: 7bit

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

Content-Transfer-Encoding: 7bit

Scott:

Well luckily condx were *much* improved over last outing with Dave. Late this afternoon I put up a double bazooka oriented just right for Dave (after missing him the first time). Tonight he was absolutely blasting my eardrums nearly out of my head :-). At the end he was the strongest FOX ever here. And the pack was overwhelming in volume. Wow!!

Setup was the OHR500 at 5 watts to the double bazooka. Also had available the usual TNT/2 Windom at 33' and the HB wire vertical with a single radial.

The bazooka was hastily erected on the 33' collapsible pole hoisted by a 12' length of PVC. Wondered whether it would even stay up, but it did long enough. Wish I could have tried for him with the window, since I missed him the first time with it. Oh well.

72/73,

--Doc Lindsey/K0EVZ

DSBF

P.O. Box 7187

Bismarck, ND 58507

E-Mail 70511.3041@compuserve.com

Date: Thu, 11 Feb 1999 22:19:13 -0800

From: David Fifield <fifield@pacbell.net>

To: prvalko@oakland.edu

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [32834] Re: SHEEPISH ADMISION: Re: NC20 L1 toroid question

Message-ID: <36C3C7E1.8AB4CD2B@pacbell.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Paul,

You're right! After just posting back to Mont that he'll have to start over and seeing your post, I tried it, and yep, all you have to do is flip it over! Saves some effort (and wire!) :-)

Thanks for the tip!

72, Dave Fifield, AD6A

"Paul R. Valko" wrote:

>

> On Thu, 11 Feb 1999, Mont Pierce wrote:

>

> > Any one know if it makes any difference if L1 is wound

> > clock-wise versus counter-clock-wise around the toroid?

>

> heh heh... imagine my surprize when I turned the page after winding that

> thing for 20 minutes (including removing one turn I found that had wire

> crossed) only to see that I had wound the whole contraption bassackwards.

>

> It doesn't make any difference at all. Obviously, you flip the coil over

> to make the wires line up with the holes, but I measured my LO at EXACTLY
> 5.000000000 MHZ on my HP (High Priced) freq counter.
>
> 73! =paul= W8KC
> Collector of Ten*Tecs and other fine plastics
> <<http://www.acs.oakland.edu/~prvalko>>

Date: Thu, 11 Feb 1999 23:22:00 -0700
From: Gary L Surrency <gsurrency@juno.com>
To: jeff.logullo@Central.Sun.COM
Cc: qrp-l@Lehigh.EDU
Subject: [32835] Re: Solder flux recommendations?
Message-ID: <19990211.232406.-4173495.1.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Radio Shack carries a small 1 oz. tube of rosin solder flux. pn 64-021
for \$2.19

Std. disclaimer, yada, yada, yada.

72, & happy fluxing, or defluxing. Whatever.....

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 12 Feb 1999 01:32:14 EST
From: ka7you@juno.com
To: ka7you@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [32836] Re: CW readout-freq counter.
Message-ID: <19990211.224610.11679.3.ka7you@juno.com>

Thanks to everyone for the prompt response. I'll get one ordered very
soon, and get it built too. That is not my usual mode; I usually have to
let any kit I purchase AGE; but this is a special case.

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.

160M thru 1296 MHz-higher bands pending
ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 and others

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Date: Fri, 12 Feb 1999 02:15:28 -0500 (EST)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [32837] Dayton Banquet INFO!
Message-ID: <Pine.LNX.3.95.990212020420.801H-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, Dayton is three months away and we've already got 35 people signed
up for the banquet. Interest incoming? It'll be a GREAT time...

Lots of food!
Lots of door prizes!
Lots of fun!

Price? \$25 CHEAP!!!

If interested...send check or money order made out to QRP ARCI for \$25 per
person you're buying a ticket for...please include a name and callsign for
each.

Scott Rosenfeld N7JI
QRP ARCI Banquet Tickets
2250 Patterson St. #50
Eugene, OR 97405-2988

Please include a self addressed stamped envelope for the tickets.

Scott Rosenfeld ARS N7JI
541-346-7401 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Fri, 12 Feb 1999 01:48:35 EST
From: N7YA@aol.com

To: qrp-1@lehigh.edu
Subject: [32838] Re: How do you work this out?
Message-ID: <108ca004.36c3cec3@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 2/11/99 7:06:32 PM Pacific Standard Time,
prvalko@oakland.edu writes:

<< Excellent response. I would not hesitate to sell/buy a rig from QRP-L
BECAUSE I BELIEVE that if someone did fiddle with the rig post-sale (your
example) they would not try to pull a fast one. >>

Me too!! i did my very first internet transaction on here, and i was not
disappointed. the fellow ham i traded with was very fair and helpful...and i
did my best to reciprocate. there was a small problem with the tuning
dial...but it was something i could live with. and i believed him when he
said it left the east coast in top shape. things happen in shipping, so i
gladly finalized the trade and we exchanged checks to cover eachothers
shipping costs. to this day, i am still pleased with the trade...this list is
the best!

besides, like the song says..."its a small world afterall", dont do someone
wrong, word travels faster than you can cover up a raw deal.

73...Adam, N7YA

Date: Fri, 12 Feb 1999 01:22:51 -0800
From: "Radman" <radman@best.com>
To: <jeff.logullo@Central.Sun.COM>, "Low Power Amateur Radio Discussion" <qrp-
1@Lehigh.EDU>
Subject: [32839] Re: Soldering Iron Scare
Message-ID: <199902120920.BAA22062@proxy3.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jeff writes: I was seduced by all the talk of the Weller
WTCTP solder station (and the sale price) mentioned on
QRP-L last week and took the plunge. <snip> Assuming this
is not a "grounded-tip soldering iron", how would one
safely and effectively ground its tip?

Hi Jeff et al,

I'm sure you'll find the Weller WTCPT solder station to be "ESD-safe" for any IC/transistor soldering work that we commonly perform in kit/home-brew construction. That solder station has been the 24-hour-a-day "work horse" of Silicon Valley for years. (It's been tested !) To address any concerns you might have, contact Cooper Tools -- the parent company of Weller -- they love to talk about ESD safety!

Cooper Tools - 3535 Glenwood Avenue - Raleigh, NC 27612
Phone number: (919) 781-7200 Fax number: (919) 783-2116
email: cooperinfo@coopertools.com
URL: <http://www.coopertools.com/index.html>

Std disclaimers....

GL es let us know how you like it :-)

72 - Conrad - NN6CW

Date: Fri, 12 Feb 1999 06:09:21 -0500
From: Peter_Simpson@ne.3com.com
To: qrp-l@lehigh.edu
Subject: [32840] K2 first contact!
Message-ID: <85256716.003E7DF5.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

He was Doug, KB8IDQ in VA, from the Virginia QRP Society, calling CQ QRP on 40.

So, I worked him. Sorta. My CW wasn't quite up to snuff, and Doug was nice enough to QRS so I could copy him. So, I know the K2 works on 40. Got to get come more wire in the trees for some other bands.

I could mention the great DX I worked after Doug, but he was about 20 miles west of me, so I won't.

I tried to bag the fox, but even the K2's RIT/XIT didn't help me. Seemed like the entire population QRP-L was trying to work Dave last night. As he signed, after two hours of straight contacts, people were still trying to work him.

Last night was fun, the first real test drive the K2 has had, and I must say, it was fun. It hears well, the filters work to knock down the QRM, and the keyer (to my novice fist) works great...all those extra dits came from my fingers!

Peter, KA1AXY

Date: Fri, 12 Feb 1999 08:20:51 -0000
From: "Kim Andersen" <ox3fv@greenet.gl>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [32841] Re: Light weight paddle
Message-ID: <009e01be5660\$f585fa40\$e2b1c2@ox3fv>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

I would like to say thank you to all of you who have replied to my mail. =

I have decided to try out a Whiterook MK-44.

73 de Kim/OX3FV

Kim Andersen
ARS OX3FV
Box 3
ZIP 3930 Groennedal
GREENLAND

ox3fv@greenet.gl

Date: Fri, 12 Feb 1999 07:23:57 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: ap036@detroit.freenet.org
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32842] Re: enough already
Message-ID: <36C41D5D.1593@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Steve Sorrell wrote:

>
> But, you forgot, a month from now someone will ask the same question "Should
> I clean my boards before building" and start the same bull----- all over
> again.
> To clean or not to clean, THAT is the question
> de Steve, W8SFF
>
>
Steve,

Once upon a time we started a FAQ list for this reflector. It fell to the wayside because (I think) it started out too with too high goals and was complex. Maybe we should revise the FAQ list and start with one or two questions like "should I clean" and what do you think of the XYZ Kit"!

73

Date: Fri, 12 Feb 1999 12:29:01 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [32843] cold solder? was Flux Removal
Message-ID: <36C3D83D.A5146DA8@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

There are three main things that go into making a good solder joint;

1. CLEAN CLEAN CLEAN leads and pads
2. Enough heat on both surfaces to be soldered
3. No motion until the solder is solid

With clean surfaces you can use a very mild flux, with some dirty surfaces NO flux will get you a good joint.

Building a new kit, with new parts and new, clean boards, a very mild flux is the best bet, much easier to clean, or prettier if left uncleaned.

BTW I use a 'Pink Pearl' (eraser) to clean both the lead and the pad just before soldering, and I often use 10x or 30x magnifiers for inspection.

michael N6CHV (in central Florida)

bahr521@earthlink.net wrote:

>

> The dooms

> dayers were telling me my soldering joints using Kester 245 low flux

> solder would give me cold solder joints.

Date: Fri, 12 Feb 1999 04:30:04 -0500

From: wpc@west.net (John L. Roblin / Whiterook Products Co.)

To: qrp-l@Lehigh.EDU

Subject: [32844] Re: Light Weight Paddle

Message-ID: <v01530501b2e9a385800d@[205.254.241.207]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

>I would like to say thank you to all of you who have replied to my mail.

>I have decided to try out a Whiterook MK-44.

>73 de Kim/OX3FV

Thank you Kim!! For those of you unfamiliar with our line up of Pocket Mini-Keys, Mini-Paddles, and Mini-Keyers, check out our Website.

72/John WA6KY0

John Roblin WA6KY0

Whiterook Products Company
"Mini-Keys and Other Cool Stuff!"
<http://www.west.net/~wpc/>

Date: Fri, 12 Feb 1999 05:50:42 +0000
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-1@lehigh.edu
Subject: [32845] Fox and QRL
Message-ID: <199902121251.FAA12905@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Was glad to catch the fox last night, even tho I called him Dick instead of Dave....sorry for the lapse, but I was grumbling about his entry into the hunt. Dave called QRL de AB0GO right on time, and was rewarded with a host of hunters sending their calls. So, he moved a bit and did it again. Same result. I sent him GA, but don't know if he heard it.

Come on folks, QRL is usually a query meant to avoid walking on someone else, not a request to flood the freq with calls. I would suspect that he thought the freq was in use, or he wouldn't have moved and sent QRL again.
72,73
Bob Hightower KI7MN Chandler, AZ DM43BI

<http://www.extremezone.com/~ki7mn>

Date: Fri, 12 Feb 1999 08:17:51 -0500
From: DNT1@daimlerchrysler.com
To: kd1jv@moose.ncia.net
Cc: vhf@w6yx.stanford.edu, qrp-1@Lehigh.EDU
Subject: [32846] Re: ElectroMagnetics on 20/20 ??
Message-ID: <05256716.00491322.00@lmgodd02.notes.chrysler.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Steve, KD1JV wrote:

> Basicly, they found if you aim a high power microwave beam at most
> anything with a uP in it, it crashes after a few seconds. Suprise,

> suprise! Stuff in unshielded plastic boxes crash almost instantly.
> Doesn't do any perminate damage.

Did they mention what frequency range their devices were working in? The big question here is "What's the difference between the unit they were using & a high-power amateur transceiver on 10GHz"? I'm not familiar enough with the extreme VHF/UHF bands to answer this one but it seems to me that this could be an extremely effective means of wiping out radar guns & detectors along with various other devices (even your vehicle's engine controller!) if used mobile. Anyone on the list able to clarify/debunk this theory?

> They showed a quick picture of a device that looked like it had a
> bunch of spark gaps in a metal tube, terminated by a wave guide that
> could crash systems at 3000 ft. I'd hate to stand in front of that
> device!

When I was in the USAF working with a certain black plane (I worked on electro-optic camera systems) with interesting ECM capabilities, everyone in the hangar would be run off whenever the ECM troops came out to do the "op-check" of their systems. If I recall correctly, they would set up their test gear & get into the cockpit to operate the systems (no one stayed outside of the plane & the hangar would be closed up for the testing). I recall one of the ECM guys telling me that you didn't want to be around it even at the reduced levels used for testing if you had any desire to reproduce in the future, they were warned against the possibility of sterilization during their training on the systems!

Just something to think about...

73,

Don T. AI4CW QRP-L#1670 Toney, AL EM64pw

Date: Fri, 12 Feb 1999 09:03:29 -0500
From: Wayne A Smith <k8ff@juno.com>
To: qrp-l@lehigh.edu
Subject: [32847] K8FF/Norcal Paddles
Message-ID: <19990212.090330.6774.0.k8ff@juno.com>

Let me begin by thanking everyone that purchased a K8FF/NORCAL paddle. Your enthusiasm and support for the design has been greatly appreciated. My sincere thanks go out to Doug and Jim for a job well done!

The purpose for this note is to answer numerous letters and e-mail I have received during the last few months. The design for the K8FF/NORCAL

iambic paddle has been sold to Vibroplex. The plan is to bring an improved version to market this spring. Interested buyers should contact Vibroplex at www.vibroplex.com to be placed on the waiting list. Early ordering should help in receiving paddles with low serial numbers. Updated will be posted to the web as they become available.

Thanks again for your continued support. I am working on several new designs as time permits. So, watch for new stuff in the future.

Best 72, Wayne K8FF

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 12 Feb 99 09:23:30 EST
From: "L. Mark Pilant - MS ZK03-4/Y02 DTN 264-1529" <pilant@seesaw.ENABLE.dec.com>
To: qrp-1@lehigh.edu
Cc: pilant@seesaw.ENABLE.dec.com
Subject: [32848] Elmer200: Crystal oscillator information web site
Message-ID: <9902121423.AA22884@us2rmc.zko.dec.com>

Greeting all. Looking for some information on rubidium frequency standards
I ran across the following web site:

<http://bul.eecs.umich.edu/uffc/quartz/vig/vigttoc.htm>

This contains the "Introduction to Quartz Frequency Standards" by John Vig
in web form. It contains lots of good information about types of oscillators,
how to make them stable, effects of age, shock, etc.

I hope you find it useful.

73

- Mark N1VQW

Date: Fri, 12 Feb 1999 06:50:41 -0800 (PST)
From: Gary Slagel <gds slagel@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [32849] Simple Keyer Project
Message-ID: <19990212145041.13500.rocketmail@send204.yahoomail.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Hi guys -

Thought some of you would be interested in a simple little project I recently completed. Very simple, very useful and best of all easy enough for someone with my limited kit building experience.

Bought a white rock paddle and a tick keyer kit (total cost about \$25). The open plastic base of the paddle is just the right size, with some squeezing, for the keyer kit. End result... a miniature, self contained, keyer suitable for packing. Since I'm hoping to expand my kit building and have stacks of SST's, NE4040's, OHR... 's, etc around, this means I won't have to build a keyer into everyone of them!!!

Went to Batteries Plus and they built a little battery pack for me (\$7.50) that fit exactly in side of the paddle base. This pack was 3 mini nicads that they put together to make a unit about the size of a AAA battery @3.6 volts. Fit perfect and I'd guess will power this thing almost forever with one charge. Bought a mini toggle switch for on/off and a mini push button switch for keyer adjustments, both at radio shack (\$3). These were mounted in the front of the base, under the paddle, to be out of the way. Eliminated the rest of the connectors and jacks cause all was self contained/hard wired. On completion, the whole thing fit very nicely into an 8oz tomato sauce tin can for packing to the field. I've had it to the field twice now and works like a champ.

So.... I thought this was a nice project and if anyone wants a really simple first project this is it. Its on to the first xcvr for me.

73 - Gary

==

Gary Slagel
N0SXX
Conifer, CO 80433
gdslagel@yahoo.com

DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Fri, 12 Feb 1999 09:04:28 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: "Paul R. Valko" <prvalko@oakland.edu>
Cc: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>
Subject: [32850] Re: How do you work this out?
Message-ID: <Pine.LNX.3.95.990212085334.26099B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just managed to snag an HW-9 from a fellow ham in Ontario...total strangers to each other until I went looking for the transceiver...we worked out a deal on e-mail....he provided a full description of the rig and said it needs lots of tlc....I sent him a bank money order and the HW-9 arrived very well packed yesterday....after a brief check it is as he said it was....yes, I was a little nervous sending him the full amount but I "kept the faith" and my fellow ham and new friend did not let me down... sure, I could have been "taken"...but it has been my experience that hams take pride in helping each other and not taking a fellow ham "to the cleaners"....we do have a few bad apples in the barrel but very few...I hope this "tradition" keeps on being maintained....it's one of the many reasons that I am, have been and always will be proud to be a "ham."

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada
"QRP! How sweet it is!"

Date: Fri, 12 Feb 99 09:59:21 EST
From: "L. Mark Pilant - MS ZK03-4/Y02 DTN 264-1529" <pilant@seesaw.ENET.dec.com>
To: qrp-l@lehigh.edu
Cc: pilant@seesaw.ENET.dec.com
Subject: [32851] RE: Elmer200: Crystal oscillator information web site
Message-ID: <9902121459.AA24868@us2rmc.zko.dec.com>

I hate when this happens....a case of the stuttering fingers...

The URL should be:

<http://bul.eecs.umich.edu/uffc/quartz/vig/vigtoc.htm>

Thats what I get for sending mail from one machine and browsing from another :-}

I apologize for the wild goose chase.

73

- Mark N1VQW

Date: Fri, 12 Feb 1999 07:26:31 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: ki7mn@extremezone.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32852] Re: Fox and QRL
Message-ID: <36C44827.963D4009@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bob Hightower wrote:

>
> Was glad to catch the fox last night, even tho I called him Dick instead of
> Dave....sorry for the lapse, but I was grumbling about his entry into the
> hunt. Dave called QRL de AB0GO right on time, and was rewarded with a host
> of hunters sending their calls. So, he moved a bit and did it again. Same
> result. I sent him GA, but don't know if he heard it.

So THAT was what that was all about! Heh, heh, I once heard somebody sending
'VVV' on 7042 at the appropriate time in a very fox-like manner; I sent my call
and was rewarded by being the first to work the fox that evening.

73,
Vic, K2VCO
Fresno CA

Date: Fri, 12 Feb 1999 09:45:31 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [32853] Heath HW-9
Message-ID: <Pine.LNX.3.95.990212093739.611A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am now the proud owner of a Heathkit HW-9 QRP transceiver... ;-) ...it
is in a comatose state but does receive on 40 mtrs with the centre

conductor of the antenna coax connected....as soon as I connect the ground side of the antenna the signals disappear....I am thrilled to have finally tracked one of these down and to have this new project....I guess it's the same feeling when someone finds a rusty old car and restores it to life once again...it does not have the WARC bands so I am looking for the MODEL HWA-9 Accessory Band Pack....if anyone has any suggestions where I can go looking for the Band Pack, I would appreciate it very much!

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada
"QRP! How sweet it is!"

Date: Fri, 12 Feb 1999 09:47:48 -0600
From: "Tom Samples KB0YZY" <tomsa01@swbell.net>
To: <qrp-l@Lehigh.EDU>
Subject: [32854] Sweep oscillator
Message-ID: <199902121540.JAA02835@mail-gw1adm.rcsntx.swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Please help, I need to assemble a small sweep oscillator with an output of a few milliwatts. I plan to run it off a 9v alk battery.

If you have any tips on where I could get a circuit design please email me.

Tom Samples KB0YZY
QRP-L #1853 ARCI #9652 NORCAL #22145 CQC #522
Kansas City, MO

tomsa01@swbell.net

Date: Fri, 12 Feb 1999 10:44:46 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-l@lehigh.edu
Subject: [32855] Lightweight 50:200ohm balun
Message-ID: <36C44C6E.DD54C9BE@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I've gotten enough coordination back to wind toroids neatly.

0.1 oz 7-60 MHz efficiency >89%, even when one side of
the balanced line is grounded.--Zack W1VT

Date: Fri, 12 Feb 1999 10:47:56 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@lehigh.edu>, gqrp-l@blacksheep.org,
towertalk@contesting.com, antennas@qth.net, antennaware@contesting.com
Subject: [32856] New at the site
Message-ID: <Pine.GS0.3.96.990212104458.18601A-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For those interested, I have placed some notes on a rotatable extended
Lazy-H at the site under the upper HF section as "A Nearly Universal
Back-Up Antenna for the antenna Farm tha Has Everything Else." The
antenna is not new (going back to W2EEY), but perhaps the potential
application may be.

I hope the notes are useful to someone.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off) (423) 974-7215
1434 High Mesa Drive	/	\	\	----	/	---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	/	/		(FAX) (423) 974-3509
37938-4443 USA	/	\	\	\			cebik@utk.edu
URL:	http://web.utk.edu/~cebik/radio.html						

Date: Fri, 12 Feb 1999 10:50:32 -0500
From: "David Hurley, n2zhy" <n2zhy@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>, njqrp <njqrp@njqrp.org>
Subject: [32857] Jersey Fireball 40
Message-ID: <36C44DC8.F1D36E07@amsat.org>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim, kj5t:

I'll be on tomorrow morning(Saturday 1240 utc), on or about 7.080.2,
and hopefully we can make the 40 mw contact. I'll throw out a few
n2zhy/qro 's to let you know that I'm there.

Thanks again.

David,n2zhy
Princeton,NJ

> Im listening to 7.080 now at 6:40AM (12:40Z) - and can try tomorrow am
> at this time.
> Jim, kj5tf

Date: Fri, 12 Feb 1999 10:38:50 -0600 (EST)
From: Jim Glover <psykey@okcforum.org>
To: qrp-l@lehigh.edu, okcham@okcforum.org
Subject: [32858] NVIS practice planned for this weekend
Message-ID: <199902121638.KAA22142@okcforum.org>
Content-Type: text

If you're within a 200-300 mile radius of Oklahoma City, please
listen for our NVIS signals on Sunday morning into early Sunday
afternoon. We plan to be on the air somewhere between 9 and 10
AM, starting on 80 meters, and switching to 40 meters by noon.

Callsigns: WB5UDE (Jim, SSB/CW) and/or KD5AMB (Mark, CW)

Frequencies:
80 meter SSB 3870
80 meter CW 3700
40 meter SSB 7240
40 meter CW 7125

2-meter coordination on the Buffalo Interlink System. For more
details, see: <http://www.rass.org/buffalo/>
(Note: There have been some additions to the Buffalo Interlink
lately, and I've been told that the webpage hasn't been updated
yet. Hopefully, if the link has made it to a repeater near you

lately, you'll have heard about it through the grapevine.)

OBQRP: I'm planning a solo NVIS trial Monday (I'm off work that day, but Mark isn't). I'll be using an OHR QRP Explorer II on 40 meter CW. Nothing on 80 meters, nothing on 40 meter SSB, and nothing on the novice CW bands, but I'll be calling "CQ OK" somewhere around 7040, running 2 watts. I'll also try to be on the Buffalo Interlink System for this session, but it may get a little hard to operate two radios, including one on CW, and keep good notes, too! I'll post again with a time for Monday, when my plans firm up.

--Jim WB5UDE

Date: Fri, 12 Feb 99 11:39:32 -0400
From: "Caitlyn M. Martin" <cait.martin@ibm.net>
To: "thp@onelist.com" <thp@onelist.com>, "vhf@w6yx.stanford.edu" <vhf@w6yx.stanford.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Six Meters" <50mhz@qth.net>
Subject: [32859] A bit more on the computer for trade
Message-ID: <199902121640.QAA82490@out4.ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi, everyone,

I have had a number of inquiries, but no "I'll take it" responses yet. To add: I have located the manuals for the CD-ROM drive and the video card, so it comes with pretty much complete documentation. The case is a minitower. It does **not** come with a modem. Mine is external and is not included. I can include an Intel 10/100 Ethernet NIC if that makes a difference.

Again, I am looking to trade for a 5 to 10 watt SSB/CW rig for HF and/or 6 meters, though I would consider some monobanders that are in the 10-20 watt range. I gave a pretty extensive list last time, and some folks have reminded me of a few others that exist (Dentron, for example), so let's just say that if it's QRP and SSB, please talk to me. It does not have to be an even trade.

If anyone missed the original post and needs details about the system, please e-mail me. A picture of it is at:

<http://www.netferrets.net/images/temp/686.JPG>

Thanks and 73,
Caity
KU4QD

Caitlyn M. Martin	"They have computers... and may have
cait.martin@ibm.net	other weapons of mass
http://www.caitys-world.com	destruction" -Janet Reno

Date: Fri, 12 Feb 1999 10:13:42 -0700
From: Gary L Surrency <gsurrency@juno.com>
To: zlau@arrl.org
Cc: qrp-l@Lehigh.EDU
Subject: [32860] Re: Lightweight 50:200ohm balun
Message-ID: <19990212.101342.-4118603.1.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

That's great, Zack! Please tell us how you made that balun! I've made a few small baluns myself, but I'd like to know what you came up with.

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 12 Feb 1999 10:41:10 -0700
From: John Evans - N0HJ <jaevans@codenet.net>
To: qrp-l@lehigh.edu
Subject: [32861] Re: Elmer200: Crystal oscillator information web site
Message-ID: <36C467B6.C7E85C3D@codenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

L. Mark Pilant - MS ZK03-4/Y02 DTN 264-1529 wrote:

> <http://bul.eecs.umich.edu/uffc/quartz/vig/vigtoc.htm>

One too many t's in vigtoc.htm !!!

<http://bul.eecs.umich.edu/uffc/quartz/vig/vigtoc.htm>

72 - john

John A. Evans, N0HJ Chief Systems Administrator
Office: (719) 528-1800 x164 Titan Software Systems
Fax: (719) 528-1888 1115 Elkton Drive, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>

Date: Fri, 12 Feb 1999 10:48:00 -0700
From: Niel Skousen <nskousen@scientechn.com>
To: qrp-l@lehigh.edu
Subject: [32862] NOT QRP; any VBI data pro's ?
Message-ID: <4.1.19990212104709.009a77a0@if.scientechn.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Anybody onthe list doing VBI data services ? Want to ask some questions !!

TNX Niel

Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG, NUSI WA7SSA
208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID
nskousen@scientechn.com DN33wm . . . -z

Date: Fri, 12 Feb 1999 12:54:17 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [32863] Flux and cleaning comments
Message-ID: <3.0.32.19990212125414.00689ed4@kih.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi gang,

First of all this discussion involves a word.. "flux", which has a broad general meaning but exists in many chemical forms. Any discussion of fluxes should include naming the flux, be it pure rosin, zinc chloride, rosin with "activators", borax, or proprietary formulas, other wise the discussion becomes meaningless. I may be wrong but I believe that in early electronics, Flux was a medium that blocked oxidation of a recently cleaned metal surface while that surface was being heated allowing solder to cleanly bond the joint. Pine rosin was ideal, plentiful and relatively inert. (Plus it smells good!)

For higher temperature silver soldering, temperatures run about 1100 degrees F and rosin carbonizes so borax is used. For mass production, a good rub with Scotchbrite (green) minutes before soldering is impossible so mildly corrosive additives are used to penetrate the oxide layer that begins to form on pure metal immediately after cleaning. These additives are either acid or alkaline and therefore ionic and therefore conductive and therefore cause problems. Removal is best accomplished by following the manufacturer's recommendations since they are reluctant to tell you the solder or flux formula.

Several years ago I read the H-P bulletin regarding flux removal after a parts replacement and think that must be regarded in that particular situation. By this I mean that you remove a bad part, insert a freshly cleaned replacement, and solder within minutes using a relatively non-active solder. You are not wave soldering a board with parts shipped 6 months ago made with wire drawn 2 years ago. Manufacturing and repair are entirely different situations and demand different fluxes and different cleaning solutions or in the case of pure rosin , no cleaning.

For homebrew gear, I like to use the higher grade 90% drugstore alcohol followed by a water rinse and a good shaking followed by drying in the oven at minimum heat. For the water rinse use distilled water from the grocery store.

Electrolytic capacitor failure is a new one on me so I'm curious about that....they are unreliable enough as is.

Epoxy is not waterproof...it's a long story but we found that out while trying to use epoxy potted transducers to measure heart dimensions. The solution was to rub silicon grease into the epoxy. Medical Electronics and especially research is a constant adventure with materials.

A final comment on flux....for aluminum soldering the oxygen barrier is often what's left in the 10w-30 motor oil jug... so let's be more specific in this discussion.

Sorry for the length but nothing is as simple as we would like.

72+/-1 Pete W4VCT

Somewhere South of Nonesuch, Ky and NE of Gravel Switch.

Date: Fri, 12 Feb 1999 10:19:39 -0700
From: Wayne Burdick <n6kr@elecraft.com>
To: "Peter Zenker" <Peter_DL2FI@csi.com>
Cc: elecraft@qth.net, qrp-1@lehigh.edu
Subject: [32864] Re: First impressions on K2 vs. European BC strn
Message-ID: <v03102815b2ea111eb51c@[206.80.9.233]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Peter,

Thanks for the great report! I'm really glad the K2 is handling your high signal levels over there.

73,
Wayne

>Did some QSO, got some good reports and from critical QRP friends an
>enthusiastic fat X9 as tone report
>
>It is getting dark outside. Using a 50 Ohm resistant at the txvr side of my
>Antenna Tuner and an RF Voltmeter I just measured abt 250 mV RF To explain,
>thats the sum of all RF coming into my shack from my 41m long 23 m up
>endfeed ZEPP.
>
>Between 7100 and 7200 I counted 14 BC carriers all peaking the S9+40 bar at
>the S-meter allthough i used the attenuator. The sidebands of this BC stn
>all are peaking the S9+40 bar, that means, the real signal of the carriers
>will be som 60 dB over S9 or more.
>
>The situation within the European 40m band (7000 to 7100):
>absolute clear receiving of amateur radio stn as week as 529 is position no
>attenuator, no amplifier. using the preamplifier brings the s-meter up to a
>constant level of S5. AGC is working fantastic. If I compare with rhe SGC
>2020 which I had two times as a test rig, the only coment I can give is "no
>comment" (I still have some trouble with the German dealers about a comment
>printed in my monthly QRP-QTC :-((
>
>Until now absolute no need to use the RF gain knob. I tried it, it is workin
>excellent also on week signals, but as I sais, no need to do so.compared to
>my FT1000 (the old one, not the MP) the K2 seems to be a little less noisy,
>but may be thats the same problem a young lover has if he compares his

>actual love with a model - the more you love her, the more she will. In fact
>it is at least the same quality. The main difference: Weight of FT1000 is
>32kG
>
>Until now, NO IF breakthrough.
>
>In some of my rigs I am using a 7020 piecoceramic filter coupled to 50 Ohm
>by 2 transformers to make them winners on 40m. I will try the K2 with this
>filter to see if there is any difference (sontimes you can make good things
>even better :-))
>
>So far from Berlin, Germany / Europa
>
>72 de Peter, DL2FI
>
>
>
>
>---
>Submissions elecraft@qth.net

Date: Fri, 12 Feb 1999 13:16:15 -0500
From: wgabriel@dukeengineering.com
To: qrp-1@Lehigh.EDU
Subject: [32865] VE?DNL Calibrator Crystal?
Message-ID: <85256716.00645CBA.00@dpinet01.dukepower.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Anyone know where one can obtain the 5.12 MHZ crystal for the VE2(or 3?)DNL
crystal calibrator that uses a 4060 divider? I don't see any "microprocessor
type" crystals available for this freq in my scouring the catalogs so far.

I do know of most of the crystal manufacturers where I could order a custom
crystal. Just was hoping to find a cheap or surplus source.

Thanks - Watson/WB4EXW

Date: Fri, 12 Feb 1999 18:18:00 +0000
From: Walt Amos <waltk8cv@surf.free.com>
To: "Reflector, Qrp-l" <qrp-l@lehigh.edu>
Subject: [32866] new thread
Message-ID: <36C47058.287BDF8@surf.free.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Fox hunters

For your edification

FOXES SHOULD HAVE NO MORE THAN TWO TERMS

MR. PRESIDENT, WE CAN NOT HAVE A " FOX GAP " ! (Dr. Strangelove)

Walt k8cv

Date: Fri, 12 Feb 1999 13:35:43 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>, "N.J. QRP Club List Server" <njqrp@njqrp.org>
Subject: [32867] QRP Quarterly Jan 1999 Issue
Message-ID: <Pine.BSI.3.96.990212131831.6970B-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Friends and Fellow QRPers,

Due to popular demand, and to help out some of you who were late in
renewing your subscription to the QRP Quarterly, I have decided to make
this "Special Limited Time Offer" The January 1999 Issue of the QRP

Quarterly Journal is available POSTPAID for \$ 6.00 US/CA \$ 10.00 DX

Contact me by email with your mailing address. I will also be glad to add
other back issues to your order with out any additional postage charges.

It looks like 5 issues is the maximum that I can get into the Priority
Mailers for those in the US. Maybe less for the DX mailers.

Here is the list of other items available and the details for payment.

I currently have the following items for sale:

1998 QRP ARCI F.D.I.M. Proceedings at \$ 12.00 Postpaid. OUT OF STOCK!

Try ordering from Hank Kohl, K8DD <k8dd@tir.com>

Pre 1998 issues are \$ 4.00 each or two for \$ 7.00 plus postage.

CURRENTLY AVAILABLE:

1995 #2 (APR) #3 (JUL) #4 (OCT)

1996 #1 (JAN) #2 (APR) #3 (JUL) #4 (OCT)

1997 #1 (JAN) #3 (JUL) #4 (OCT)

A limited quantity of 1995 #1 Photocopies are available at \$ 7.00 each.

Temporary OUT OF STOCK on the 1995 #1 Photocopies.

A limited quantity of 1997 #2 Photocopies are available at \$ 7.00 each.

Temporary OUT OF STOCK on the 1997 #2 Photocopies.

A collection of QRP Quarterly Articles on QRP Plus Modifications.
(27 Pages) \$ 7.00 each plus postage.

* * * * *

ALL 1998 & 1999 Issues are \$ 5.00 each or two for \$ 9.00 plus postage.

* * * * *

CURRENTLY AVAILABLE:

1998 #1 (JAN) 1998 #2 (APR) 1998 #3 (JUL) 1998 #4 (OCT) 1999 #1 (JAN)

QRP ARCI Mouse Pads (Beige with Blue Oval LOGO) \$ 5.00 each

Mouse Pads OUT OF STOCK (Order from K8DD@tir.com)

QRP ARCI LOGO Pins (Blue Oval LOGO) \$ 5.00 each (Order from K8DD)

"72" "Wishing you Good QRP" PINS \$ 1.00 each.

"The JOY of QRP" 2nd Edition, by Ade Weiss, W0RSP at \$ 20.00 each.

"The History of QRP in the U.S., by Ade Weiss, W0RSP at \$ 15.00 each.

Special price of \$ 35.00 for both POSTPAID.

PLEASE INCLUDE YOUR MAILING INFORMATION and Optionally a Telephone Number with your e-mail requests for information or when placing an order. It helps me track the orders and speeds up the shipping process.

Make your Check/Money Order out to "George D. Gingell" and mail it to me at 3052 Fairland Road, Silver Spring, MD 20904-7117

PLEASE REMEMBER to include your Name, Callsign, Current Mailing Address, and QRP ARCI Membership Number if you have one.

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net

QRP A.R.C.I. Net Manager and Board of Director Member.

Gingell & Company, Ltd. Small Business Telephone Systems

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George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117

Maryland Milliwatt Club QRP Reference Library, (301)572-6789

Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -

Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Date: Fri, 12 Feb 1999 13:53:06 -0500

From: Tom Palmer <n1tp@worldnet.att.net>

To: waltk8cv@surfree.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [32868] Re: new thread

Message-ID: <36C47891.7F58E41D@worldnet.att.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Automatically limiting FOXES to two terms could
create a "FOX GAP."

Tom, N1TP, Naples, Florida.

Walt Amos wrote:

```
> Fox hunters .....
>
> For your edification .....
>
> FOXES SHOULD HAVE NO MORE THAN TWO TERMS .....
>
> MR. PRESIDENT, WE CAN NOT HAVE A " FOX GAP " ! ( Dr. Strangelove )
>
> Walt k8cv
```

Date: Fri, 12 Feb 1999 11:21:31 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: "QRP-L list" <qrp-l@Lehigh.edu>
Subject: [32869] Fox: final log K1MG
Message-ID: <2d2c01be56bc\$e7f0f040\$140a0a0a@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Corrected two slips of the fingers on the keyboard:

Fox log: K1MG 5-Feb-99 7.043 MHz CW CA Mike 614

UTC call sent rcvd S/P/C name QRP-L

```
1 0100 KU7Y 579 579 NV RON 17
2 0101 NQ7X 599 559 AZ FLOYD 343
3 0102 WE6W 559 599 CA ED 1068
4 0103 K5ZTY 559 579 TX BILL 473
5 0103 K2VCO 579 599 CA VIC 725
6 0104 N5TW 559 559 TX TOM 1474
7 0105 N0EA 559 559 MO WAYNE 1058
8 0106 N4ROA 559 559 VA DAN 970
```

9 0108 VE5RC 559 339 SK BRUCE 886
10 0109 K50I 559 599 NM TIM 73
11 0110 WW7Y 559 599 UT STEVE 94
12 0112 N0RN 559 579 CO BOB 1789
13 0113 WN6HYX 559 579 CA MARY 1779
14 0115 KB7WW 549 599 OR ART 219
15 0115 KI7MN 559 599 AZ BOB 271
16 0116 AB7CE 449 559 MT ROY 4W
17 0117 VE6EWM 559 579 AB EARL 1076
18 0118 K0EVZ 559 599 ND DOC 861
19 0119 KF4KSM 559 569 FL MAC 704
20 0120 WS8D 449 579 MI MIKE 1188
21 0121 N0UR 599 579 MN JIM 799
22 0122 K50N 559 579 NM GARY 770
23 0123 AB5UA 559 559 OK CLIF 478
24 0124 VE2KN 559 589 QC JIM 103
25 0126 VE3SP 559 579 ON RON 464
26 0128 N5LU 579 579 OK BILL 5W
27 0129 AE2T 559 599 NY AL 1664
28 0130 N6VZ 559 579 CA GARY 919
29 0131 K5LN 559 599 TX BILL 1794
30 0132 AB7ST 559 559 UT BOB 129
31 0133 AI4CW 559 339 AL DON 1670
32 0135 W5SB 559 559 TX BILL 1279
33 0137 WD8KQY 449 579 OH GARY 446
34 0139 AE4Y 559 449 GA KENT 1844
35 0141 K8CV 499 559 MI WALT 935
36 0142 WA60TP 579 599 OR JIM 3W
37 0144 AA2PF 559 559 NY DAVE 306
38 0146 AK7Y 559 599 AZ GREG 1693
39 0146 N1TP 449 569 FL TOM 1317
40 0149 W0RSP 559 569 SD ADE 661
41 0150 N3YSI 349 599 PA PAUL 1835
42 0151 K8DD 559 569 MI HANK 246
43 0152 KA4BMK 559 569 FL JIM 5W
44 0154 WD4MSM 559 559 IN BARRY 642
45 0155 W9UQB 559 579 AZ MIKE 413
46 0156 KK5LD 559 559 TX DAN 5W
47 0157 WA9PWP 559 479 WI PAUL 127
48 0159 KI0II 559 589 CO RON 928
49 0200 N5JI 449 559 TX DICK 1054
50 0201 K5JHP 559 559 TX BILL 825
51 0202 W5TD 449 559 TX TOM 5W
52 0205 WA8ZBT 559 579 TX DENNIS 5W
53 0206 AB0GO 559 559 CO DAVE 785
54 0207 KQ5U 569 559 TX TERRY 1603
55 0208 KJ7LO 559 589 AZ JEFF 1739
56 0211 K5UBS 559 559 OK OSCAR 1773

57 0212 W5TB 559 559 TX DOC 673
58 0214 KQ0I 559 559 IA MARK 615
59 0215 VE3JC 449 559 ON JOHN 744
60 0216 W0RW 449 599 CO PAUL 1284
61 0218 W2PFS 559 579 NY HAL 5W
62 0219 KA5T 559 559 TX LARRY 89
63 0220 N7CQR 559 599 OR DAN 502
64 0221 KB0YTK 559 599 CO VINCE 1283
65 0222 W5HNS 449 559 TX HENRY 178
66 0223 K7TQ 559 579 ID RANDY 102
67 0224 AA5TA 449 359 TX LARRY 1245
68 0226 W0CH 559 559 MO DAVE 618
69 0227 WS4S 559 559 TN CONARD 993
70 0228 W2UX 449 559 SC GARY 593
71 0230 N8VAR 559 339 OH RON 263
72 0231 N2TO 449 549 NY KEVIN 323
73 0233 KK7GG 559 559 OR MIKE 1705
74 0235 K5UP 559 559 OK GLEN 21
75 0236 KS4L 449 459 AL RANDY 468
76 0238 K10J 579 559 TX OJ 732
77 0239 N1FN 559 559 CO MARSHALL 153
78 0239 AB7TT 559 599 AZ JOE 191
79 0240 K4IMA 559 559 KY PETER 4W
80 0241 W0HEP 559 559 CO RICH 1817
81 0242 N0AR 559 559 MN SCOTT 1455
82 0243 AB0CD 459 559 CO DICK 483
83 0244 W4VCT 449 559 KY PETE 1721
84 0244 K6LS 559 559 CO PHIL 5W
85 0245 KC1FB 449 559 CT JIM 29
86 0246 WJ1R 579 559 CO LARRY 5W
87 0247 N8IE 449 559 OH DAN 1404
88 0249 AB7MY 559 579 AZ GARY 571
89 0249 KC5T 559 579 TX BOB 1792
90 0250 KK5WL 559 559 TX GARY 340
91 0252 W2XN 449 449 FL FRED 1728
92 0254 K2SJB 449 559 NY DAVE 757
93 0256 W2SCF 459 449 NJ DICK 1613
94 0257 N2ZHY 449 339 NJ DAVID 5W
95 0258 W5XE 559 559 TX RAY 256
96 0259 KG2LO 559 559 NJ ROLAND 1445
97 0300 VE7CQK 449 559 BC PAUL 20

Date: Fri, 12 Feb 1999 14:28:06 -0500
From: Nick Franco <franco@bnl.gov>

To: qrp-1@lehigh.edu
Subject: [32870] FOX: IWTF: Patience + Perseverance = Pelt
Message-ID: <36C480C5.AD70A2BE@bnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Yes: IWTF: I Worked The Fox

It felt good for a change. But ... What a tough copy on the Fox. Man,

Dave was down under the noise floor for most of the night. I was straining to pull out his exchanges with other hunters. I tried patiently for over an hour until I finally got a clear shot and worked the lil FurBall. This is a prized pelt for me. So far this Fox season I have either not heard the Fox at all or I heard him pretty clearly and

was able to work him. This one was a real challenge. I had to man the rig for an hour and a half solid looking for opportunities to call him. I could hear plenty of hunters out there but had to use every filtering method available to copy Dave.

Good show Dave. Thanks for your efforts and for the challenge. Your pelt hangs in my shack with pride.

72,
Nick - kf2ph . .
QRP-L # 13

--
Nicholas J. Franco <>> BROOKHAVEN NATIONAL LABORATORY
RHIC Systems Administrator RHIC Project Building 1005
Tel: (516) 344-5467 UPTON, NY 11973-5000
Fax: (516) 344-3674 Ham Call: KF2PH
Email: nickf@bnl.gov <http://www.rhichome.bnl.gov/People/franco>

Date: Fri, 12 Feb 1999 14:46:28 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: tomsa01@swbell.net
Cc: qrp-1@lehigh.edu
Subject: [32871] Re: Sweep oscillator
Message-ID: <199902121931.0AA11902@moose.ncia.net>
MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

> Please help, I need to assemble a small sweep oscillator with an output
> of a few milliwatts. I plan to run it off a 9v alk battery.

>

Hi Tom,

Y0u don't specify what freq you want or how much sweep range, so
we'll assume it's in the HF band and you only need a couple hundred
Khz of sweep range.

In which case, a simple LC oscillator with a varactor diode (1N4001's
work well) will do the trick. To sweep it you need a voltage ramp,
which can be generated with a 555 timer or a couple of op amps. Most
any book on op amps will show you how to build a saw tooth or
triangler wave generator.

If you need to go no more than 20 Mhz, don't need a lot of stability
or accuracy, the Maxim MAX038 could be used, but it needs a negative
supply. They run \$21.44 from Digi-Key and work from 0.1 Hz to 20 Mhz,
(although not all at once) using an R/C oscillator. It's a function
generator chip, so it will produce sinewaves, square waves and
triangular waves. It has a 350 to 1 sweep range by putting a voltage
ramp to one of the input pins.

I'm sorry I can't point you to a specific circuit, but hope this
helps.

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Fri, 12 Feb 1999 13:38:00 -0600
From: "Nathan Odle" <nodle01@mail.coin.missouri.edu>
To: <qrp-l@lehigh.edu>
Subject: [32872] RE: ElectroMagnetics on 20/20 ??
Message-ID: <000201be56bf\$3391fba0\$8dc9ce80@nathan.missouri.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Not to break up a great thread, but this is one that should probably be taken private or to a general electronics group. Frying radar guns with high power RF doesn't exactly fit into a "QRP"-related mailing list.

73,
Nathan
KB0NNV

Date: Fri, 12 Feb 1999 14:37:51 -0500
From: DNT1@daimlerchrysler.com
To: Dave Sjolín <sjolin@swbell.net>
Cc: qrp-l@Lehigh.EDU
Subject: [32873] 7040 area may be crowded this weekend
Message-ID: <85256716.006BDDFE.00@lmgodd02.notes.chrysler.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Dave, N0IT wrote:

> I think there is also Cw contest this weekend (NA QSO party). If so, 40
> ought to be a real battle field, since it would be a major qso source
> for both contests.

The cure for this is for everyone to go up into the novice portions of the bands & work lots of folks this weekend during the Novice Roundup! The info on the contest can be found on the FISTS webpage, thought I had forwarded it to work for sharing but can't seem to find it if I did. I'm sure we're likely to find some of our recent upgrades there doing their best to help others do the same!

72,

Don T. AI4CW QRP-L#1670 Toney, AL EM64pw

Date: Fri, 12 Feb 1999 12:22:17 -0800
From: neil <neil@aade.com>
To: Ron or Wendy Hankins <rh8421@bitstorm.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, For Sale - Swap List <forsale-swap@qth.net>
Subject: [32874] recent selling prices, ham equipment.
Message-ID: <36C48D79.31040936@aade.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

As a new addition to
<http://www.aade.com/hampedia/hampedia.htm>
I have added a page of prices realized from ebay auction over the past few months.

there are over 800 different items listed representing over 2000 sales.

I also updated my links page at
<http://www.aade.com/links.htm>
with over 300 new links and eliminated over 150 defunct links.

--

Neil
<http://www.aade.com>
<mailto:neil@aade.com>
Almost All Digital Electronics
1412 Elm St. SE
Auburn, WA 98092
253-351-9316

Date: Fri, 12 Feb 1999 15:56:40 -0500
From: David Allen <w1wai@gis.net>
To: qrp-1@lehigh.EDU
Subject: [32875] NorCal 20
Message-ID: <36C49588.4CA5@gis.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just received this great new kit. No time to build.
Sell for \$105 shipped w1wai@gis.net

Date: Fri, 12 Feb 1999 16:23:09 -0500
From: David Allen <w1wai@gis.net>
To: qrp-1@Lehigh.EDU
Subject: [32876] NorCal20

Message-ID: <36C49BBD.5881@gis.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Has been sold. Wish I had lots of them Great Interest
73 David w1wai@gis.net

Date: Fri, 12 Feb 1999 15:32:37 -0600
From: "Nathan Odle" <nodle01@mail.coin.missouri.edu>
To: <qrp-1@lehigh.edu>
Subject: [32877] WTB (Don't Laugh): NorCal 20
Message-ID: <001401be56cf\$36628d80\$8dc9ce80@nathan.missouri.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

WANTED TO BUY: NorCal 20. I've seen a couple of these come across the list and never get back in time to get one. If you're contemplating selling yours, please let me know. I'm highly interested in getting one, and don't think I'm fast enough to response to the offers ;)

TNX es 73,
Nathan
KB0NNV

Date: Fri, 12 Feb 1999 14:35:36 -0700 (MST)
From: af852@rgfn.epcc.edu (William R Colbert)
To: sslyon@worldnet.att.net, qrp-1@lehigh.edu
Subject: [32878] Re: WE6W hrd on AR QRP net thru s-7 line buzz. Noise blanker ideas?
Message-ID: <199902122135.0AA28410@rgfn.epcc.edu>

Seab, power line on only two sides? I envy you. My lot has that plus another that cuts the lot in half so I can not get up a decent flat top type antenna and the remaining space is not enough for a good sloper. My noise level from the lines in the area run about 10-15 db over S9, S9 on a quiet day. These levels mask even the most

gro of signals, and if using the noise blanker on the receiver, the amount of distortion makes operation unbearable or at least undiserable. I have not had much luck with the power company getting the leaks reduced, tho they are working at it. In the interim, I purchased the MFJ 1026 Noise Canceller. Basically it is a phasing unit which phases a separate antenna with your existing antenna for a noise reduction. I can reduce my line noise under most circumstances from 10-15 db over S9 to S-1 or S-2 level which makes a readable signal from most qrp signals appear as if by magic. A 50 to 60 db reduction in noise is significant and I suggest that you might wish to consider such a unit. I think it is basically very similar to the qrm squasher that W1FB had in CQ a few months prior to his passing. You may not wish to add any external devices, but it does do the job. 73

--

Oh yes, there are two versions - the 1025 is the same but without an internal antenna circuit (amplified). The 1025 is a bit cheaper too, and some of the fellows on LOWFER list have modified it for use below the low cutoff freq range.

73 Ray

--

Ray Colbert, W5XE
OOTC 3618, SOWP 1064M
El Paso, Tx (FAR WEST TEXAS!)
also: w5xe@juno.com

Date: Fri, 12 Feb 1999 13:38:42 -0800
From: Allan G Taylor <k7gt@arrl.net>
To: qrp-l@lehigh.edu
Subject: [32879] WANTED: NC20 kit
Message-ID: <36C49F62.2B6E@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am anxiously searching for a NC20 kit for an attempt at a 40m conversion. I am 0/3 on those going up for sale in the past week or so, so please give us who are way, way down on the reflector mailing distribution list a chance by (in my case) mailing me directly if you have one for sale. I didn't think it sporting to order two at first, but I never thought it would be so hard to find a 2nd kit...

OBTW: 2nd FOX bagged last night. AB0GO was easy prey from the West

coast at a strong 579. Split sure helps, though.

--

```

                                     |
                                   /|
                                 /  |
                               /   |
Allan Taylor, PE  K7GT           |  /Z | \
    k7gt@arrl.net              /| /599| \   QRP-L 1016 FISTS 3222
operating nr SF/Oakland CA    /_|/____|__\  ARS 228    10X 69929
..."QRP, QRO, or barefoot..."... [\-----/-/  DXCC 8171/CW 1395/40m
~~~~~

```

Date: Fri, 12 Feb 1999 15:40:53 -0600
From: "James A. Carmody" <carmodyjim@earthlink.net>
To: qrp-l qrp-l <qrp-l@lehigh.edu>
Subject: [32880] WTB NC-20
Message-ID: <36C49FE4.83BB332C@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Too busy to build it? I would love to take a new, unassembled NC 20 off
your hands.
Jim/nn5o

Date: Fri, 12 Feb 1999 16:54:23 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "_AAAA_NOGA_onlist (E-mail)" <nogaqrp@qth.net>, "GQRP-list (E-mail)" <qrp-l@blacksheep.org>, "Qrpl_Submit (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [32881] More Parking Lot Portable Vertical (PLPV) Experiments and the "No
t So Ugly Weekender"
Message-ID: <21E06269B00ED111BE9B00805F6D0FA366D923@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

I had mentioned in some of my email responses that I was changing the
design of the wire elements to use the multiple 1/4 wave individual wires
attached to 2" diameter PVC rings around the pole as spacers. This should
eliminate the need for disconnecting the wire segments when changing bands.

I did build a prototype this arrangement and although it worked it was

difficult to physically manage and tune. So the advantages of being able to immediately switch from band to band and operate are more than offset by the weight and complexity of attempting to do this even for just three bands. Particularly since manual switching only takes 30 seconds. So I stayed with my simple disconnect multi-segment method.

I have seen recent messages about using the LDG QRP auto tuner at the base of a single wire of fixed length (same with the radials) and just letting the tuner handle the SWR problem to the rig. This will work and does eliminate the switching problem but I'm not sure how the radiating pattern is affected. I have done this with my LDG tuner and the antenna setup with a single, fixed wire length. The BIG down side for me is the tuner and battery are required. Not good for backpacking but OK for car camping or semi-permanent setup (beach/mountain house, etc).

I thought about LC traps but was concerned about losses as QRP levels. I know it would load but don't know if the radiation would be seriously affected or not.

So I'm sticking with the quick disconnect multi-wire segments tuned for each band of interest and I'll let someone else try to solve the automatic switching, backpackable solution.

For a better look at this PLPV go to my web page at:
<http://www.mindspring.com/~ae4gx/>

BTW worked Sweden yesterday at lunch on 20 mtrs my RST 559. My setup was an Index Labs QRP+ @ 5w and the PLPV. So if you can hear them you should be able to run them. Like shooting ducks in a barrel. ;-)

So on to my next project: The "Not So Ugly Weekender". I hope Roy, Wes and Roger won't mind the use of the "Ugly Weekender" in the name. I do it out of respect for all they have given to QRP advancement. I planning to MOD the FAR circuits three board set into a three band (80/40/20) xcvr "To The Field" operation using additional add on's.

Stay tuned.

Sam Billingsley AE4GX Atlanta, GA

Date: Fri, 12 Feb 1999 16:00:04 -0600
From: "Nathan Odle" <nodle01@mail.coin.missouri.edu>
To: <qrp-l@lehigh.edu>
Subject: [32882] RE: WANTED: NC20 kit es WTB NC-20

Message-ID: <002401be56d3\$0c3460c0\$8dc9ce80@nathan.missouri.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Copycats...I spoke first ;)

73,
Nathan
KB0NNV

Date: Fri, 12 Feb 1999 14:04:44 PST
From: Roger Traylor <traylor@ECE.ORST.EDU>
To: qrp-l@lehigh.edu
Subject: [32883] A do-it-yourself high-level mixer
Message-ID: <199902122204.0AA25846@guille.ECE.ORST.EDU>

Guys,
 If someone could send me a copy of this article, I will
 gladly send an SASE plus \$1 to cover repro costs.
 It was apparently in RSGB's RadCom of September 1998.

Any takers?

Thanks,
Roger Traylor
WB4TPW

>
> I have built a few high-level mixers using the FAIRCHILD
> FST3125 bus-switch from an article in RadCom, and have
> verified, to a large extent, the author's IP3 claim
> of +45 dBm. My results varied between +41 and +44 dBm.
> See: <http://www.geocities.com/CapeCanaveral/Lab/9595/>
>
> 73,
> Charlos potma, PA3CKR
>
>
>

Date: Fri, 12 Feb 1999 17:21:27 -0500
From: Bob Edwards <w4ed@flash.net>
To: zlau@arrl.org, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [32884] Re: Lightweight 50:200ohm balun
Message-ID: <36C4A967.8FE8A22A@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Zack Lau wrote:

> I've gotten enough coordination back to wind torioids neatly.

Probably better than most,,, for sure better than mine,
nobody would call mine neat..

> 0.1 oz 7-60 MHz efficiency >89%, even when one side of
> the balanced line is grounded.--Zack W1VT

What design was it ? 1:1 current, 4:1 voltage, etc.,

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Bob 72/73	/
Z'# 114	/
	/ \
http://www.qsl.net/w4ed	/ / E \
W4ED nr Atlanta @EM73wt	/ _ / _ _ _ _ _ \
...."QRP", more from less....	[\ --===== - /

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Date: Fri, 12 Feb 1999 16:40:16 -0600  
From: "WILLIAM T. ROSE" <supertec@mail.myriad.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [32885] Y2K Y to K  
Message-ID: <36C4ADD0.98736D7@mail.myriad.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Y to K Problem

I hope I haven't misunderstood your instructions.

Because to be honest, none of this Y to K problem makes any sense to me.

At any rate, I have finished converting all the months on all my calendars so that the year 2000 is ready to go with the following new months:

Januark, Februark, Mak, Julk

--

KC5SCC .....BILL  
"Deep in the Heart of Texas" BRYAN, TX  
Emtech 80/20 80m & 40m ---Knightlite Smite 80m ---Pixie II 40m  
Kenwood TS520 --Kenwood TS700SP 2m --Icom ic-w21at 2m/70cm  
Ant. 80m Gnd Delta loop--Hamstick 40m dipole--Tucker Vub-2 2m  
Crushcraft A14820T 2m Beam

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Date: Fri, 12 Feb 1999 16:44:20 -0600  
From: sda <sda@bellsouth.net>  
To: qrp-1@Lehigh.EDU  
Subject: [32886] Wanted: NC-20 (will pay \$125)  
Message-ID: <199902122243.RAA04591@mail1.lig.bellsouth.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Ok, I have been trying to get one of these, too. So, here goes...  
Looking for unbuilt Norcal20, willing to pay \$125.  
Please E-mail if you have one available.

Thanks and 72,  
Todd Atkins, K4MSW (formerly kd5gch)

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Date: Fri, 12 Feb 1999 17:08:58 -0600  
From: "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>  
To: qrp-1@lehigh.edu  
Subject: [32887] Roasted 2N2222  
Message-ID: <36C4B48A.7D7A17B2@uts.cc.utexas.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hey Gang,

[I apologize if this gets posted twice, but I think I goofed the first time I tried to post by leaving my business card attached.]

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I need some help here. Believe it or not I'm still trying to get my 2N2222 transceiver completed and I am so close I can taste it but still have one tiny little problem to solve.

I'm getting up to 150mw of drive [variable from 10mw to 150mw] from my two stage post mixer amp. I used the NorCal20 design. I've set up four 2N2222's in parallel for my power amp [would like to run it at about 3 watts] and I'm trying to figure out the transformer ratio to transform the impedance from the pre-driver stage to the power amp stage. Since I didn't have the Cout figure for the 2N2222 last night I didn't have enough information to calculate the input impedance so I did some "educated" guessing and used a 33 ohm resistor from base to ground at the input of the four 2N2222's and I tried an 8:1 winding ratio.

I hooked up a 50 ohm dummy load to the output of the bandpass filter and keyed the driver stage...a small signal appeared at the output along with a somewhat funny smell...no smoke, just a strange smell. I hit it several more times and the smell got stronger. I then looked down and saw that the outside of the metal cans on the four 2N2222's had turned to a black/brown color. I didn't exactly fry them, but they were nicely roasted and had a definite short from base to emitter. Oh yeah, I left the drive at the "high" end at around 150mw for my first test so that obviously was mistake #1 and I'm sure there are others.

I assume I had a severe case of thermal runaway and had obviously guessed wrong on the winding ratio. Here are some questions I need help with:

What is the Cout for the 2N2222's?

Does a really "bad" mismatch lead to parasitic oscillations and the thermal runaway problem???

Was the 150mw just too much drive???

Thanks for any help. I'm going to get this baby on the air by March 1st even if I have to run it at 150 mw :-)

Gary, KJ5VW

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Date: Fri, 12 Feb 1999 18:13:55 -0500  
From: ntan <ntan@crosslink.net>  
To: QRP-L <qrp-l@lehigh.EDU>  
Subject: [32888] Old QST article  
Message-ID: <36C4B5AA.7836EDA6@crosslink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hello-

I'm looking for an article by W1FB about a homebrew signal generator. Its Jan. '86. I have the first page, which I found when I looked up the article for the "SWAILER". The article I'm looking for happened to be on the back!, at least part of it was.....Can someone make a copy for me? Many thanks es 72-Keep it LOW- Neil WA4CHQrp

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Date: Fri, 12 Feb 1999 16:57:27 -0600  
From: Jim <kj5tf@madisoncounty.net>  
To: qrp-l@Lehigh.EDU  
Subject: [32889] Get ready for ARRL CW DX contest NOW!  
Message-ID: <36C4B1D7.2938@madisoncounty.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

QRP'ers should be getting ready for the ARRL CW DX contest coming up on Feb. 20-21.

Be sure to start checking the bands this coming week, in advance for DX stations tuning up for the big event. Some are traveling and setting up a few days before the start.

Catch them now as they won't have the big pile-ups. Good times for QRP stations to have a clear shot. A good chance to add to your QRP DXCC list! QRP ARCI has a very nice award for that.

Arkansas QRP Club will soon be announcing a new award.

The Milliwatt DXCC Award. So stay tuned to QRP-L for that information.



[illegible]



MZPY``&H`Z&4````C?@]``\*,;#T(`N.<'00"C#P]```,<%+P]``&</0@!H"P]"  
M`.BO`@``,`\!0\_S5^#T(`4%!H`(``&@`0`:`F1J9&@`P`:&</0@!H9P]"  
M`%#HIO(``\*."#T(`:@`\_-8(/0@#HF0(``/\U@0]"`.B4`@`\_S6"#T(`Z&L"  
M``"C8P]"`#/#`:@%04!H,P]"`.A/`@`A<`/A;;``"A4P]"`(/@#Z-3#T(`  
M@\_@`#X0!`0`N0`0`"+->L.0@!15E^#QQ2+1@BKBT8,JX\$&`!```\*T!1@2M  
M`48\$K<`X\$(00K<`X\$(08K8/X`'4%@\8(ZTF` ;OP!<P3&10P`@&[]`7,\$QD;]  
M`(!N\_@%S!,9&\_@!64%)3\_S5C#T(`Z/8!``!>K<`X\$(00K<`X\$%9J`%)0\_S5C  
M#T(`Z-L!``!>@\8\$64D/A7G\_\_\_\_\_!5,/0@#I-/\_X,]-P]"`!)T%K@S#T(`  
M4%#HJO\$``.B&`0`\_Z17\_\_\_\_\_6,/0@#\_-8(/0@#H40\$``,<%B@]"`/\_\_\_\_\_I  
M/\_[\_\_UBCA@]"`(-\)`0"=0MJ`.@[]`0`,`\#K!>A\*`0`BPV&#T(`4<.A3P]"  
M`(/@#Z-/#T(`P>-BSWK#D(`\_BY`\$``.AF````P>@ (HUL/0@#H60``,`'H  
M"\*-7#T(`Z\$P```#!Z`@-#P^O` (08Z#T```#!Z`^)!XE/!-M'!-G^V@\_ ;1P39  
M\_]H/VQ\_ ;7P2#QPBA5P]"`\*NA6P]"`\*N+PZN#QPSBR?`%3P]"`.EW\_0\_\_N!-`  
M(0#W+5\ /0@`KT@41\$%, "HU\ /0@#H`\_R5D`\$, `\_R5H`\$, `\_R5L`\$, `\_R5P`\$, `  
M\_R5T`\$, `\_R5X`\$, `\_R5`\$, `\_R6`\$, `\_R6\$`\$, `\_R6(`\$, `\_R6`,`\$, `\_R60  
M`\$, `\_R64`\$, `\_R68`\$, `\_R6<`\$, `\_R6@`\$, `\_R6D`\$, `\_R6H`\$, `\_R6P`\$, `  
M\_R6T`\$, `\_R6X`\$, `\_R7`\$, `\_R7\$`\$, `\_R7(`\$, `\_R7`,`\$, `\_R70`\$, `\_R74  
M`\$, `\_R78`\$, `\_R7<`\$, `\_R7@`\$, `\_R7D`\$, `\_R7H`\$, `\_R7P`\$, `.....  
M`.....  
M`.....  
M`.....  
M`+\*EK\_]\_\_\_\_^\_P\_P`\_]`'\_\_\_\_\_[\_Y?]:15)/"````/\_^\_]`%[\_Q  
MX\$0V,MY`\_K,RWF]0JY>6C-^/C9"8C9Z2WY\*+C(0?G9K?C8J1WXJ1FYJ-WZB6  
MD<S-\07;R%I%4D\B`````K[K\_] [/^@]@VBIQ6D523P(```?\_W%>)/[]YO\_U  
M\_]\_\_\_\_\_0\_\_\_\_[\_\_\_\_]\_\_\_\_0\_\_\_\_[\_\_\_\_W\_\_\_\_[\_\_\_\_\_/\_\_\_\_U  
M\_\_\_\_\_G\_\_\_\_0\_\_\_\_\_]\_\_\_\_\_6D523P(```#\_\_\_\_^\_\_\_\_^\_\_\_\_0\_\_\_\_  
M\_\_\_\_[\_Z\_\_\_\_\_S\_D[\_UI%4D\&`````\_Z\_Q/\_\_\_\_]:15)/%`````+RPN[K\_  
M\_\_\_\_\_^\_\_\_\_0\_\_\_\_]?\_\_\_\_G\_\_\_\_UI%4D\#`````W\_\_\_\_G[N^J][\_\_\_\_^\_\_\_\_  
M\_?\_\_\_\_?\_\_\_\_^\_\_\_\_UI%4D\#`````O\_\_\_\_/]&6FYZ+GO\_\_\_\_^\_\_\_\_/\_\_\_\_?\_\_\_\_^W\_  
M\_UI%4D\#`````O\_\_\_\_/]&:FYZ+GO\_\_\_\_^\_\_\_\_^\_\_\_\_?\_\_\_\_^O\_\_\_\_UI%4D\#`````  
MO\_\_\_\_O]&-FI.0G/\_\_\_\_\_^\_\_\_\_^O\_\_\_\_?\_\_\_\_^G\_\_\_\_UI%4D\#`````O\_\_\_\_KUI%4D\_0  
M`````?(/;]`\_+LGR#V`\_?B\_T4L\$`#`[\_W\_J: !&RO\_\_U,) +U4=!9?\_W\_\_E;\7  
M9\_?\_\_WH\_BOO,/Q310&;\_0?]4^D?T\_]4^D?T\_]4^A?[\_]4?#^;5!3T`,IF  
M[\_W\_%Y+W\_]`\_O\_\_\_\_SWS\_Q>4^O\_\_?`::\`AU\_\_\_\_=/S:("`@(`,\*ROK:SBLUT  
MO/O:````@(`,+?N:VPBMR9=+SWF=H@`)G"LL6\*ZG0,=,)>[\_W\_=0+\_\_\_\_[W\_#%L6  
M@/[\_W3\VB`@("`#K;ROJXK(=+S[V@`@(``#WZNPQ8K7%T\_X\_]V\00\_0? \7  
M(O[\_WP'\_\_! [MO[\_SCZ:0^]\_P`````6S0[\_Q;\*\_0\_%`\\_] \!\_\_P>MC^  
M\_]TRF+\_0?^94IG"\_\_\_\_P>^K^\_] \PFK\_0?\_\_\`H\*\_\_\_\_%U#[\_]>?0^]\_W3B  
M90^]\_Q>6^\_\_\_\_?`<`\`L/\_\_\_\_\_%T[\_]`^O\_\_\_\_T3E\_[W\_%/[\_\_\_\_]\!P#P>RS\_  
M\_\_\7!\_G\_\_\+-RL`\_?\`H\\_\_\_\_1\_G\_\_\_\_]\$`\_^]\_Q?;^\_\_\_\_?`<`\`M4\_\_\_\_%R\_Y  
M\_\_\_\_"S<K/W`!Z9/\_U[\_[W\_=.)>[\_W\_%P3\_] \!P#P>WW\_\_\_\_\76/G\_\_\+-  
MRL`\_?BHETRF+\_0?]TZE[\_0?]\%<W,-G014[[\$#8BBP`^+W\UB@UT/G0B%T/\  
M\_] \!P"+N!>3^?\_PLW\*S]^\*Q!0M1\_G\_\_\_\_]\$`\_^]\_Q=E/\_?`<`B]H7M?G\_  
M\_\+,RLO?BN8X^FK\_0?\_\_\_\_\_,)B\_[W\_S#]41[\_] \1[\*RLK(\%VW\\_] \  
M!IN-EA<,\_0\_\_?`?\_BJ`7>/S\_\_UY^\_[W\_=.)F\_[W\_%[[\_] \!P"+M!=S/\_  
M1\_K\_\_\_\_]\$Y?^]\_Q?7/\_?`<`B\T7)\_K\_\_\+-R`\_?BME`^?\_\_\_\_T3K\_[W\_%?\  
M\_] \!P"+[1=`^O\_\_PLS+S]^\*^4?^\_\_\_\_/\$>QL;&Q/)T%)6;`,`I6\_[W\_%P[Z  
M\_]Z/\_! [F/\_UR"\_[W\_09G\_0?]TPE;\_0?\_\PH+\_0?]&/\_PQ;E?^7?\_\_\_\_

M\_Y7[E?^5\_Y?\_\_\_\`\_,I6\_[W\_%QKZ\_\_^\_\`09\_O\_\_MUR\*\_ [W\_E\WK\_\_^50Q=C  
M^O\_\_>C\_P>\_[^\_] [<0^]\_Y7\_EX;\_0?^7\_ ^0\_\_P#\*>0^]\_P#\*B0^]\_Q>!^O\_\_  
M>C\_P>QW\_\_\_^PH;\_0?\_\_Z\_\_\_C<@`RHK\_0?\7=OK\_\_Y7\_EW\_\_\_\_^5\_97\_E?^7  
M\_\_\_\_/P#\*50^]\_Q>9^0\_\_O\_![6/\_\_\_\_[=<B0^]\_Q1G= `I\`.? =2="=2="]TRGK\_  
MO?]T,?SRA0^]\_U+\$/ (O)%/=2Q#V+N`P1^WP1\_)E2Q`Z,]IG"\06+';\$4#G0!  
M=`I\`.? =T\00\_0?]\%0>NJ`Q;F4?R]9E4H\*:5\_Y>&\_[W\_KJ@`RHK\_0?\7'00\_  
M\_Q3B`,IZ\_[W\_%TG[\_\_\_\`RHK\_0?\7)/O\_\_YY'`'`'`'`#P`RGK\_0?\7900\_\_P#\*  
MBO^]\_Q= !^\_\_\_GLP\_/)]T#`0!\_`9T,'P^F\PMF73AF7X<(!T\$9E^!+FMB[ET  
M"IE^!\*RJBZQT"IE^!+&ZBX]T"IE^!+R\\`MF\_\_\_\_=`J9?@2]0/![50\_\_W0\*  
MF7X\$\07P>T;\_\_\_\_]T"KG\$#0!\&\_\_\_\_Q16F5)2VB`@` `#`L++%WXI4%RK\_\_\_\_\4  
M;)E24MH@("`@PKVUNKR\*85+:(```\_`\*KQ= \_\_BFX73?\_\_\_Q:2` `` `F5)2VB`@  
M("`#`J\*R XK8I^4MH@("`@PK"JKZSP>H` `` `94IG"Q= \_P>IL` `` `7@\_\_\_Q;(   
M` `` `F5)2V@` `` `\_\_\_"Q=\_\_\_\_!ZJP` `` `!>@\_\_\_\_%N4` `` `94E+:(` `` `\_`\*`Q=\_\_\_  
M\`J[`` `` `%[W\_\_\_\_\6`@\$`%+" \07R]?!ZQ` `` `\*`I]\*LCU1`GI&,E%1`GL7?  
MIE291YJ,F51\/?&G5+V]=NI^\_[W\_GLP\_/)Y'` `` ` `#QT"G3"90^]\_\_P%4U6]  
M?@5Y]/\_\_B/O#]8H./`07E?^OK`#\*<0^]\_P#J=0^]\_WP' `(KJ%Q`)\_\_\_"S-C\_  
M\_XK[=#H4)\$<` `` ` `/'2CV\MTL]0`/'2CV\]VXG+\_0?^GI\*RO?#S\$=/S\)WP\  
M^W;B=0^]\_SR7\_Z\_\_\_Y6\_%T3]\_\_\_Z/\_![K\_W\_\_UQZ\_[W\_E9L`RE;\_0?\79/W\_  
M\_WH\_\`04`?\_\_7(+\_0?)!H0^]\_W3"50^]\_\_S"@0^]\_T;V\_\_\_\_#%N5\_Y=\_\_\_\_\_  
ME?R5\_Y7\_E\_\_\_\_W`RE;\_0?\7</W\_\_[\_P>Q7^\_\_^W7([\_0?^7V/^]\_P#\*C0^]  
M\_Q>3`?\_\_O\_![/?[\_\_\_[=<V/^]\_Y7\_E?^5\_Y7]E?`RH[\_0?\7Z\_W\_\_WH\_\`M@  
M\_O\_\_7.`#\_0?^5\_Y7\_E?^5^P#\*X/^]\_Q?M`?\_\_>C\_P>X0^\_\_\_<W/^]\_T`#\_[W\_  
M=,)Z\_[W\_1N;\_\_\_\,6\PM7MC\_0?^OF432\_YD(#,PVF70W=0+4\_[W\_=^K0\_[W\_  
M=,K<\_[W\_HOP1=.K4\_[W\_3]510#\_\_\_\_\_ \$"HK[S3\4\_E-U`S\7\_=0`BOW[O\_0?  
M574[/Q\_[V\]U!\0\*B00-/Q3^4W4?/Q?[V\_#U.-0`BOW[O\_0?574[/Q\_]VP-U  
M!\0\*B00-/Q3^4W4?/Q?YV\_SU.-0`BOW[O\_0?574[V\`\*\_?N\_^]5MHILF4?R  
M]9E4M8I]7]#\_0?\_#\_X04^]5S#\_,+<PV7]#\_0?],\_`D,=3=[&X0]F;Y%\_O\_\_  
M\_SGZT/^]\_\_\_\6J0` `` `\$&J\_[W\_10?\_\_\_\,6W0PU/)Z\_[W\_=0+`\_[W\_S"W,-E['  
M\_[W\_F407\_)D(#)ET-W;RS^]\_W;JR^]\_W3\*>0^]\_P#ZS^]\_T(7/\_`?\_,+/  
M\_[W\_\_HKY=-++\_[W\_=#IT(1=)`@` `` `?`<`B\_7]"@#RS^]\_XHK`,K<\_[W\_%UW\_  
M\_\_\`RN#\_0?\74/\_\_\_P#\*C0^]\_Q=;\_\_\_\_\_,IZ\_[W\_%Y;\_\_\_\\E?^5PP#\*60^]  
M\_P#\*<0^]\_Q?\*\_\_\_\_`?`<`BQETXEK\_0?]T\_#R?=?,IB\_[W\_="E^/:0T\_\_]3Q`V,  
M[L/\_B@BQ=`%T#`Q;1\_\_\_\_\_]4GCP`VL/\_O/\`VK\_\_O/\`VK?\_O/\`VK/\_O/\`  
MVJ\_\_O/\`VJ0\_O/\`VJ?\_O/\`VJ/\_O/\`VI\_\_O/\`VIO\_O/\`VI?\_O/\`VI/\_  
MO/\`VH\_\_O/\`VHO\_O/\_\_\_UI%4D]!` `` ` `K:RZJ\_+UN[ZK00+UK["LJ\_+U\071  
M\07\_6D523P<` `` ` -"F)E9VEN(#8T-"!(87!P>3DY+F5X90T\*8`T\*96YD#0I<  
M4VMA+F5X90!<;&ES=&4N<VMA`/\_\_\_\_UI%4D]F` `` ` `@\_\_\`\_\`\_/]:15)/`P` `  
M`'`?`\_/\^W\_\_S\_6D523P4` `` `!I\_\_S\_8?`\_\`\_\_\_\_\_]/\_`S\_?`\_\`R/\_/\_/5\_\_S\_  
M"?`\_\`W^/\_M\_OS\_V[\_\`\_\G^/\_^]\_OS\_K[\_\`\_Z'^/\_`\_\_\_\_\_]J\*RP0+3,S=&;  
MDY/\_M+JML;JSS,W1FY.3\_\_\_\_\_XV:G(G\_\_\_\_\_J\*R^N)J+LYZ,B[J-C9"-\_\_\_\_  
MO(V:GHN:N9:3FK\*>CX^6D9B^\_\_\_\_\_ [B:BZR&C(N:DKN6C9J<BY"-AK[\_\_\_\_^S  
MD)R>D[Z3DY"<\_\_\_\_\_.0G)Z3N8V:FO\_\_ZV:GINYEI.:\_\_\_\_\_ [\*>CZF6FHBP  
MF;F6DYK\_\_\_\_^LFHNYEI.:KY"6D8N:C?\_\_\_\_^JD9\*>CZF6FHBP;F6DYK\_\_\_\_^H  
MC9+:FKF6DYK\_\_\_\_^XFHNYEI.:K):%FO\_\_\_\_[R-FIZ+FKF6DYJ^\_\_\_\_0).0C)JW  
MGI&;DYK\_6D523R@` `` ` `##\_\_O\_\_O\_\_\_\_W\_\_\_\_\_]\_\_\_\_U\_\_\_\_[\_\`\_`^`\_`\_`\_O\_F/\_`^  
M[\_]\_O^Y\_\_O\_M/\_ [\_\_\_\_O^2GIN3D]&[L[/\_DIZ6D\_ ^1FHB,\_UI%4D]L` `` ` `  
M\_\_\_\_^\_Q/\_\_\_\_NS\C/J<;SU7/)L\2S\_# WL[-SL?.JLZ"SE\_.6<XYSC/.^,W<  
MS=+-I<V?S8;-9LTY2?- (LT<S1;-)\SES,S,Q<RZS+3,H<R5S`C,9LQ3S\$0,

M`<P`S/\_\LOGR]7+RLM^RF0\*3<I`RAG\*!<KKR>/)T<G,R<;)P,FAR8\_)BLF%  
MR7+)8LE0R4+) , ,DKR27)%\D\$R?[(^,COR&S(6LA#R#C(\*<@CR!K("L@\$/['  
M^,?MQ^3'SL?&Q[0'L,>EQY7'C\=\_QW7'3\=)QT/'/<<WQS')\*\<EQQ\_&<<3  
MQPW'!\<!QUI%4D]&`@`14Y\$(`"VC-^6B]^>WXF6C8J,T]^>WXB0C9+3WY[?  
MBXV0E9Z1P-^RL\*JKTK\*PJJO?MX:=C9:;W]><UM^LCYZ1C)2>W\[&QL;1\_Z.(  
MC)"<E,S-T9N3D\_`CK)2>T9N3D\_`CK)2>T9J'F0^LD)F+B)Z-FJ.REIR-D(R0  
MF8NCJ):1FY"(C\*.\BHV-FI&+J9J-C):0D:.MBI&PD9R:\_P`  
M`  
M`!+15).14PS,BYD;&P`3&]A9\$QI8G)A<GE  
M`\$9R965,:6)R87)Y`\$=E=%!R;V-!9&1R97-S`  
M`T`  
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M.3DY("\$A`  
M`  
M`#X`,`9`#`4!`P"P`,`  
M`\$@\$#`,`P`='0`,`#`  
M`\*`#`#0!`P!&`0`,`7@\$#`'(!`P!^`0`,`D`\$#`)X!`P"L`  
M`0`,`P@\$#`-!`P#F`0`,`]@\$#`P"P`:`@`,`\*`(#`#0" `P!\$`@`,``%`"  
M`P!B`@`,`='(#`""`@`,`C@(#`\*`""`P"R`@`,`P@(#`,`H" `P#>`@`,`\`(#`  
M``(#`P`0`P`,`(`,#`T`P`,`\$M%4DY%3#`,`R+F1L;`!!1%9!4\$DS`  
M,BYD;&P`55-%4C,R+F1L;`!`1\$DS,BYD;&P`5W)I=&5&:6QE`56YM`  
M87!6:65W3V9&:6QE`1V5T5VEN9&]W<T1I<F5C=&]R>4\$`1V5T36]D`  
M=6QE2&%N9&QE00`!#;W!Y1FEL94\$`!`9710<F]C061D<F5S<P`!%`  
M>&ET4')08V5S<P`\$=E=\$9I;&53:7IE`1V5T36]D=6QE1FEL94YA;65!  
M`\$Q08V%L06QL;V,`0W)E871E1FEL94UA<'!I;F=!`\$=E=%9E`  
M<G-I;VY%>\$`!`9713>7-T96U\$:7)E8W10<GE!`0W)E871E1FEL94\$`  
M`!#;&]S94AA;F1L90`\$Q08V%L1G)E90`\$UA<%9I97=/9D9I;&4`!2`  
M96%D1FEL90`!296=3971686QU945X00`!296=#<F5A=&5+97E%>\$`  
M`!296=#;&]S94ME>0`%)E;&5A<V5\$0P`%)E9VES=&5R0VQA<W-!`  
M`%!O<W11=6ET365S<V%G90`%!E96M-97-S86=E00`!`971\$0P`\$1I`  
M<W!A=&-H365S<V%G94\$`1&5F5VEN9&]W4')08T\$`0W)E871E5VEN`  
M9&]W17A!`4VAO=U=I;F10=P`!5<&1A=&57:6YD;W<`5')A;G-L`  
M871E365S<V%G90`!39710:7AE;%8`  
M`  
M`  
M`!&@!`6`  
M,\$8P7C!P,'LPD#`"B,\*LPL3"W,,8PS#`#6,-PP`3\$',0PQ\$C\$8,38Q2#%/ ,54Q`  
M6S%A,7,Q>3%\_,8PQDC&8,:LQL3'- ,=TQXC`P,04R\$C(=,BTR.S)-,EHR;#\*;  
M,J4RKC\*X,L8R\C(. ,RXS-C-# ,THS4#-9,X`SAC.2,Y@SM3/5,^0S`#/U, \_LS`  
M!C0;- "HT-C0[-\$T3#19-&4T=S1\-( (TE#29-)\TL32V-+PTSC34--HTMC7!  
M-<DUTC77->(U[S7\ -0<V\$C8=-B@V9#8S-DXV6C9?-FDV;S9S-G@VAC:@-J4V`  
M L#`X-L,VSC;8-N0V]C;^ -A(W;3>(-Y\WJC>R-\DWSS?:-^DW!C@-!4X`C@R`  
M.#\X=CA\.(LXFSBG.\*XXM#BZ.,`XQCC,-(XV#C>..0XZCCP./8X\_#@".0@Y`  
M#`CD4.1HY(#DF.2PY,CDX.3XY1#E\*.5`Y5CE<.6(Y:#EN.0`  
M`

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end

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Date: Fri, 12 Feb 1999 16:39:08 -0700  
From: "David Ek" <ekdave@earthlink.net>  
To: <QRP-L@lehigh.edu>  
Subject: [32891] FOX: AB0G0 preliminary log  
Message-ID: <000901be56e1\$235ed380\$cdac85ce@davidek>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Okay, gang, here's the results of last night's hunt. Let me know if I made any errors.

63 complete QSOs. 27 SPC's. 21 pelts went to Texans (or, as W5TB put it, those "Pesky Texans"). 4 Texans named Bill caught me. Recent ex-N/T+ Mary WN6HYX caught me. Lots of good friends in the log--sure helps when you start to recognize call signs!

Thanks all of you who hunted, and thanks to those who sent me kind words after the hunt. I find that as time goes on the members here cease to be just names and callsigns and begin to become true friends. Thank you all for your friendship and cameraderie.

Okay, here's the log:

|      |       |     |     |    |       |      |
|------|-------|-----|-----|----|-------|------|
| 0201 | KI7MN | 559 | 579 | AZ | BOB   | 271  |
| 0204 | K5JHP | 559 | 559 | TX | BILL  | 825  |
| 0206 | W5HNS | 559 | 559 | TX | HENRY | 178  |
| 0208 | K1MG  | 579 | 589 | CA | MIKE  | 614  |
| 0209 | N4ROA | 559 | 559 | VA | DAN   | 970  |
| 0211 | NQ7X  | 559 | 559 | AZ | FLOYD | 343  |
| 0212 | KQ5U  | 559 | 559 | TX | TERRY | 1603 |

|      |        |     |     |    |       |      |
|------|--------|-----|-----|----|-------|------|
| 0214 | AK7Y   | 559 | 559 | AZ | GREG  | 1693 |
| 0215 | AA5TA  | 559 | 559 | TX | LARRY | 1245 |
| 0217 | K0EVZ  | 559 | 569 | ND | DOC   | 861  |
| 0219 | K6VNX  | 559 | 579 | CA | ARLEN | 5W   |
| 0220 | K5ZTY  | 559 | 559 | TX | BILL  | 473  |
| 0221 | K50T   | 559 | 599 | NM | TIM   | 73   |
| 0223 | W5SB   | 559 | 559 | TX | BILL  | 1279 |
| 0226 | VE5RC  | 559 | 339 | SK | BRUCE | 886  |
| 0227 | AF5Z   | 559 | 559 | TX | BOB   | 984  |
| 0229 | W5TB   | 559 | 559 | TX | DOC   | 673  |
| 0230 | AB7CE  | 559 | 599 | MT | ROY   | 4W   |
| 0232 | WJ7H   | 559 | 559 | UT | WAYNE | 481  |
| 0234 | K2VCO  | 559 | 559 | CA | VIC   | 725  |
| 0235 | KU7Y   | 559 | 579 | NV | RON   | 17   |
| 0237 | K7GT   | 559 | 579 | CA | ALLAN | 1016 |
| 0238 | N5TW   | 559 | 599 | TX | TOM   | 1474 |
| 0239 | KK5LD  | 559 | 559 | TX | DAN   | 5W   |
| 0241 | AB5UA  | 559 | 559 | OK | CLIF  | 478  |
| 0243 | WD8KQY | 559 | 559 | OH | GARY  | 446  |
| 0244 | AB5WX  | 559 | 559 | TX | DAVE  | 1718 |
| 0247 | WN6HYX | 559 | 559 | CA | MARY  | 1779 |
| 0249 | KA5T   | 559 | 559 | TX | LARRY | 89   |
| 0252 | K5UP   | 559 | 559 | OK | GLEN  | 21   |
| 0253 | KA4BMK | 559 | 569 | FL | JIM   | 5W   |
| 0255 | W0RSP  | 559 | 569 | SD | ADE   | 661  |
| 0256 | VE6EWM | 559 | 579 | AB | EARL  | 1076 |
| 0258 | N5JI   | 559 | 579 | TX | DICK  | 1054 |
| 0259 | WE6W   | 559 | 579 | CA | ED    | 1068 |
| 0301 | K5LN   | 559 | 559 | TX | BILL  | 1794 |
| 0304 | K4IMA  | 559 | 549 | KY | PETE  | 4W   |
| 0305 | N0AR   | 559 | 559 | MN | SCOTT | 1455 |
| 0306 | KB7WW  | 559 | 559 | OR | ART   | 219  |
| 0307 | KC5T   | 559 | 559 | TX | BOB   | 1792 |
| 0310 | WS8D   | 559 | 559 | MI | MIKE  | 1188 |
| 0312 | K5NZ   | 559 | 569 | TX | MIKE  | 5W   |
| 0313 | AI4CW  | 559 | 239 | AL | DON   | 1670 |
| 0316 | VE1CC  | 559 | 579 | ON | MIKE  | 5W   |
| 0317 | WA9PWP | 559 | 459 | WI | PAUL  | 127  |
| 0319 | N1TP   | 559 | 559 | FL | TOM   | 1317 |
| 0321 | KF2PH  | 559 | 339 | NY | DICK  | 13   |
| 0323 | VE3FAL | 559 | 559 | ON | FRED  | 1463 |
| 0326 | N9DD   | 559 | 579 | IN | TOM   | 32   |
| 0328 | W6SIY  | 559 | 579 | CA | KEITH | 675  |
| 0330 | KF4KSM | 559 | 559 | FL | MAC   | 704  |
| 0332 | K10J   | 559 | 559 | TX | OJ    | 732  |
| 0334 | KC1FB  | 559 | 349 | CT | JIM   | 29   |
| 0336 | K8CV   | 559 | 559 | MI | WALT  | 934  |
| 0337 | AA1MY  | 559 | 559 | NY | SEAB  | 574  |

0339 WA8RXI 559 569 MI RICK 1368  
0343 AE4IC 559 339 NC BOB 54  
0346 VE2KN 559 \*\*\*INCOMPLETE\*\*\*  
0349 KS4L 559 459 IL RANDY 468  
0351 KD5CMN 559 449 TX MIKE 1328  
0352 NM5M 559 559 TX ERIC 1824  
0354 KK5WL 559 559 TX GARY 330  
0356 KD2KW 559 559 TX KEN 1735  
0359 AB8DF 559 559 MI ED 1444

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Date: Fri, 12 Feb 1999 15:49:01 -0800 (PST)  
From: Ron Stark <ku7y@dri.edu>  
To: DNT1@daimlerchrysler.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [32892] Re: 7040 area may be crowded this weekend  
Message-ID: <Pine.SOL.3.96.990212153708.24500A-1000000@vortex.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Another good thing to do from 0000z to 0400z Suaday 14 99  
is to join in on the NA Sprint!

That 4pm West coast time on Sat eve for those without  
UTC clocks.... :-)

80, 40 and 20 only. Plenty of time on Sat AM to polish  
the elements on the antennas and get the feed lines fed!

Notice the different exchange between the station calling  
CQ and the station answering:

N6TR DE K7GM 154 RICK NC K (K7GM called CQ and N6TR answered)

K7GM NR 122 TREE OR DE N6TR K (N6TR will now get the frequency)

TU (Sent by K7GM to let N6TR know that he got the exchange OK)

When you come accross an exchange and you only hear  
something like "DE N6TR K" you know that it's N6TR's  
frequency, that he is just finishing a QSO and that  
as soon as the other station sends something like "TU"

it is the time to for you to call him!

Fun contest and requires some thinking! No CQ battles  
in this test....

Hope everyone gets a chance to play a little at least.

cul,

73, Ron,       SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

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End of QRP-L Digest 1365

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